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Query Match 37.3 Best Local Similarity 59.3 Matches 613: Conservative

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61 Cotalacycogyaddattcoayttatccytccytogyaggaatatatatatattat. 12v
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The present sequence was isolated from a breast tumbour coRA library. It is provided in a specification felating to campounds for immunotherapy and diagnosts of breast cancer, breast tumbour antigens and the polynoclectides that encode them may be used in the production of a pharmaceutical composition to be used in the treatment of breast cancer. Frollierated Toolls and incubated antigen presenting cells are also required. The polypeptides and polynoclectides may also be used to produce a raccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 4; Page by-Su; 95pp; Englist.
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The present sequence is one of a large number of 5' ESTS derived from mRNAs encoding secreted proteins. No ORF has yet been conclusively identified within the present sequence. The 5' ESTS were prepared from total human RNAs or polyAr RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from olivo-di primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences
                                                                                                                                                                                                                                              New nucleic acid that is a 5' expressed sequence tag (5' ESI) for obtaining cDNAs and genomic DNAs that currespond to 5'ESIs and for diagnostic, forensic, gene therapy and chromosome mapping procedures
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gene therapy; chromosome mapping; ss.
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Best Local Similarity 100.0%; P
Matches 32; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-JAN-2000
11-JAN-2000
11-JAN-2000
12-JAN-2000
12-JAN-2000
13-JAN-2000
07-AUG-2000
04-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human: NOV6: ds: 78817267; fertillty disorder: spermatogenesis; cardiant: cytostatic: immunocolulatory; entiproliferative; antidiacetic; cell proliferation; cancer; diabetic retinopathy; antipopathy disorder; pulmonary disorder; nametopoietic disorder; inflammatory disorder; nametopoietic disorder; emph;sema; cirrhosts; wound healing; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nerived from the 5' ends of makks and even in those cases where longer cDMA sequences have been obtained, the full 5' URFs is rarely included 5' ESTs are derived from makes with intact 5' ends and can therefore be used to obtain full beingth cDMAs and genomic DMAs. 5' ESTs are also used in disphositic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretions vectors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        U5-JAN-2001; 2001WO-US00299
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-00T-2001 (first entry)
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2000US-0175438
2000US-0175488
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2000US-0175743
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2000US-0223524
2000US-0223524
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Pred. No. 0.0013;
0; Mismatches 0
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The invention relates to nucleic acids encoding NOVX (A being an integer from 1-8) polypeptides. The NOVX nucleic acids and polypeptides are disast in disgnosing, treating or manufecturing a medicament for a disaste or disorder associated with NOVX e.g. cell proliferation (cancer and disabetic retinopathy), anglogenic or pulmonary disorders, fertility

Nucleic acids encoding polypeptides, designated NOVX polypeptides, useful for treating a syndrome associated with a NOVX-associated discrete. e.g. cell proliferation (e.g. cancer and diabetic retinopathy), angiogenic or pulmonary disorder.

Prayaga SK. MacDougall J:

Majumder K,

Taillen

ĒĖ,

Spaderna

SK,

Spytek

(CURA-) CURAGEN CORP.

WPI: 2001-418356/44.

Disclosure: Page 22-30; 144pp; English.

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RESULT
AACC59199
AACC5919
AACC59199
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Movel human secreted proteins useful for diagnosis, prevantion treatment of disorders including neurological, cell proliferationardiovascular, autoimmune/inflammatory disorders and microbial infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-MAR-1999;
03-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cytostatic; immunosuppressive; noutropic; neuroprotective; antiviral; antiallergic, hepatotropic; antibacteric antivirulamatory; antiviral; vulnerary; anticonvulsant, antibacterial; antifungal; antiparasitic; cardiant, gene therapy; cancer; immune disorder; cardiovascilar disorder; neurological disease; infamiliar, human; secreted protein; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   disorders (e.g. of spermatogenesis), hashatopoietts, inflammatory and tumour related disorders, emphyseca, cirrunsis, would healing. Now nucleic acids are also useful in gene therapy. They are also useful in open therapy. They are also used for screening for a modulator of activity or interapy. They are also useful for determining the presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder. The presence of or predisposition to a NOWA-associated disorder.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human secreted protein cDNA sequence #4:1.
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DB; AAB27724.
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l Similarity 100.0%;
30; Conservative (
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99US-0168622.
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3. 0.0048;
cties 0;
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Query Maton
Best Local S
Matches 29
                                                                                                                                                                                      thatrus, treest, gastrointestinal tract, liver, lung, or urogenital; (b) immine disorders e.g. Addisor's disease, ellergies, autoimmune haemolytta ansemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) caratrovascular disorders such as myocardial ischaemias; (d) "Juno healing; (e) restroidstes diseases e.g. cerebral anoxia and epileysy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.
                                                                                                                                       Sequence 1308 bP; 322 A; 227 C; 286 G; 472 T; 1 other;
   on 2.9%; Silarity 100.0%; Silarity 100.0%; Silarity 25; Conservative 0;
Score 29; DB; Pred. No. 0.0
0; Mismatches
                                DB 21;
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                                                         Length 1308;
       Indels
       0;
   Gaps
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3338888888888

5 ç AAGS9c3s; Gene transcription product; genetic markers; tagging; in vivo; transcription; mapping; locations; chromosomes; chromosomal; ss Human brain Expressed Sequence Tay EST01493 16-MAK-1991 AAŲ59633 stardarų; CDNA; 315 BF

W05316178-A

Homo sapiers

19-400-1993

12-FEB-1993; 93WO-US01294

12-FEB-1992; 92US-0837195

(USSH) US DEPT HEALTH & HUMAN SERVICE

AJans ML.

Moreno RF,

Venter CJ;

Enriched oligonuclectides and corresp. sequences - used markers for human genes transcribed in vivo, facilitate of most human genes

as Lagging

Example 4; Page 207; 500pp; English.

The Expressed Sequence Tag was isolated from a human brain cDMA library as part of a large set of ESIS which can be used as markers for human genes transcribed in vivo. They can be used to facilitate tagging of most human genes, for mapping locations of expressed genes can chromosomes, for individual or forensic identification, for mapping locations of disease associated genes, for identification of tissue type, and for preph. of antisense sequences, probes and constructs. ESTU153 has a "poor" coding probability as evaluated using the coding-region prediction program CRM. See also AAQS9041-061440. Sequence 319 BP; 118 A; 42 C; 75 G; 82 T; 2 other;

Query Match 2.7%; So Best Local Similarity 100.0%; 1 Matches 27; Conservative 0; Score 27; DB 14; Pred. No. 0.12; 0; Mismatches 0 Length 319;

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Indels

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The present sequence is the coding sequence for a human Pho polyperhild (secreted and transmembrane). The PhO protein, and PhO spointis. FhO anisonists or anti-PhO anisonists are seaful for preparation of a medicament useful in the treatment of a condition which is responsive to the PhO protein, agonists, aniagonists or anti-PhO arcticodies. The PhO protein may also be employed as modecular regist markers for process, electrophoresis. The PhO coding sequence has applications in molecular biology, including use as hybridisation probes, and in chromosome and gene mapping.
                                                                                                                                                                                                                                                         Grimal
                                                                                                                                               Claim 2; Fig 129; 278pp; English.
                                                                                                                                                                     Eighty four nucleic acids encoding PRO polypeptides, "seful in molecular biology, including use as hyurnulzation process, and in chromosome and gene mapping."
                                                                                                                                                                                                                                                                                             (GETH ) GENERIFECH INC.
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AAF92122 standard; cDNA: 1177
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Sequence 1177
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                                                                                                                                                                                                                      2001-183260/18.
DB; AA687590.
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ldi CJ, Gurney AL,
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99W3-USJ1091
99US-U169455
99US-U17022
2000W3-USJ1441
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 BP; 272 A; 307 C; 226 G;
                                                                                                                                                                                                                                                         Gerritsen
, Watanabe
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 I; 0 other;
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mat_peptide sig_publide

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mature secreted protein.

12-80V-1955: 550S-0164744. 36-30N-2006: 2036US-0215140. 08-KUV-2000; 2000W0-US30628

(HUMA-) HUMAN GENOME SCI INC Riben SH. Komatsoulis GA, Baker KP,

Young 10

PI: 2001-316491/33. -PSLE: AAE01636.

17-MAY-2001

.J200131627-Al

Qy

Query Match 2.7%; Best Local Similarity 100.0%; Matches 27; Conservative (

0; Nismatches

22; Length 1177; ن. Indels

٥. Gays.

c

AADUS579-AADUS556 represent chikas corresponding to 28 human secreted protein games and AAED1700-AAED1849 represent the proteins they encode. AAED18650-AAED1860 represent human secreted protein fragments or war...ts. The games and their secreted proteins are useful for preventing, treating or machiforating medical conditions. e.g., by protein or generating or machiforating medical conditions, e.g., by protein or generating or machiforating medical conditions, e.g., by protein or generating or the new protein in a sample or by determining the presence of mutations in the new grounds. Specific uses are described for each of the machifors in the new grouns. Specific uses are described for each of the act and include excloping products for the dispossis or treatment of proliferative disorders, cancer, tumours, foetal and developmental

Claim 1; Page 474; 567pp; English.

Kee nuberd sond malecules encoding numen secreted processs, used preventing, treating or ameliorating a disorder, e.g. Alzhomer's Parkinson's diseases and cancers.

2 5

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Himber: secretes protein; proliferative disorder; cancer; tumber: foetal accormality; developmental accormality; haematopoletic disorder; manne system disorder; AIDS; autolimane disease; rhematoid arthritis; fifalmation; allergy; neurological disorder; Alzhelmer's disease; Farkitsor; slasease; cognitive disorder; schizophrenia; astima; skim disorder; psoriasis; sepsis; dishetes; atheroselerosis; sardiconaccular disorder; pregnancy related disorder; satterosis; pastrointestinal disorder; pregnancy related disorder; pregnancy; call culture; chemotaxis; food additive; gene therapy; third colories and partner identification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human secreted protein-encoding gene 21 cDNA clone HDPTW65, SEQ ID NO:75
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/product* funnan secreted protein
/product* Kucept* (pos.451.451, aa:Xaa)
/rearsl_except* (pos.451.451, aa:Xaa)
/note* Xaa equals any of the twenty naturally ocurring
Lanino acius*
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Human; secreted protein; proliferative disorder; cancer; tumour; foetal abnormality; developmental abnormality; haematopoiette ulisorder; immune system disorder; AlDS; autoimmune disease; rheumatoid arthritis; inflammation; allergy; neurological disorder; Alzheimer's disease; parkinson's disease; cognitive disorder; schizophrenia; astlad; skin disorder; psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder; angiogenic disorder; kidney disorder; gastroinessinal disorder; prepnancy related disorder; gene therapy; endocrine disorder; infection; wound healing; vulnerary; cell culture; chemotaxis; food additive; binding partner identification; ss.
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12-NOV-1999; 950S-0164744
30-JUN-2000; 2000US-0215140
                                                                                                                                                                                                 WO200134627-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human secreted protein-encoding gene 21 cDNA clone HDPTW65, SEQ ID NO:31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10
                                                                                                                                                                                                                                                 /*Lag a zrr. 
/product *Human secreted protein*
236.280
/*Lag b
281.379
/*Lag c
/product *Human mature secreted protein*
                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
236..382
/*tag* agms*
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abnormalities, haematopoietic disorders, diseases of the immune system, (C AIDS, autoimmune diseases (c.g., rheumatoid arthritis), iniladmaticn, C AIDS, autoimmune diseases (c.g., rheumatoid arthritis), iniladmaticn, CC allergies, heurological disorders (e.g., Alzheimer's disease), C Alzheimer's disease; (C Parkinson's disease), cognitive disorders, schizopirenia, astinau c skin disorders (e.g., psoriasis), sepsis, diabetes, atheroscierosis, C Sardiovascular disorders, angiogenic disorders, kinay disorders, cognitive disorders, kinay disorders, cognitive disorders, and contestinal disorders, pregnancy related disorders, and out of C disorders, and infections. The proteins can also be used to aid wound combening and epithalial cell proliferation, to prevent skin aging due to C sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues, to identify their C cognate ligands or binding partners, and in chemotaxis, and can be used to as a food additive or preservative to modify storage properties.

C Antibodies specific for a protein of the invention can be used in C alleviating symptoms associated with the disorders mentioned above, and C in diagnostic immunosorbent assay (ELIAN). The present sequence represents a human C secreted protein-encodiny cDNA of the invention.
                                                                                                                                                                                                                                                                                                                                             Claim 1; Fage 436-437; 567pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    New nucleic acid molecules encoding human secreted proteins, used preventing, treating or ameliorating a disorder, e.g. Alzheimer's barkinson's diseases and concers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI: 2001-316491/33.
P-PSDB: AAE01790.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ruber SM, Komatsoulis GA, Baker KP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (HUMA-) HUMAN GENUME SCI INC.
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CC ALGO5579-AADD5656 represent CDNAs corresponding to 28 human secreted protein genes and AADD170-AADD1867 represent the protein trayments of variants. The genes and their secreted proteins are useful for preventing. AADD1867 approach is they encode. CAADD1866 approach in human secreted protein fragments of variants. The genes and their secreted proteins are useful for preventing, contracting medical conditions, e.g., by protein or gene therapy. Pathological conditions can be diagnosed by determining the amount of the new genes. Specific uses are described for each of the conditions in the new genes. Specific uses are described for each of the conditions on the tissues in which they are most highly expressed. The polificative disorders cancer, tumours, foctal and developmental prolificative disorders (e.g., rheunatoid arthritis) inflammation. AIDS, autonomous diseases (e.g., rheunatoid arthritis) inflammation. CC AIDS, autonomous diseases (e.g., rheunatoid arthritis) inflammation. CC AIDS, autonomous diseases, cognitive disorders, schizophrenia, asthma. Stand. Stand disorders (e.g., rheunatoid arthritis) inflammation. CC AIDS, autonomous disorders, pregnancy related disorders, endorders, and disorders, and infections. The proteins can also be used to said wound compate ligands or binding partners, and in chemotast, and can be used to compate ligands or binding partners, and in chemotast, and can be used in can be used in an includies specific for a protein of the invention can be used in an includies specific for a protein of the invention can be used in an includies specific for a protein of the invention can be used in an includies specific for a protein of the invention can be used in an included abolities or presentated visit hed disorders mentioned above, and in chamocassay or e.g., redictions mentioned above, and compate disposition assay (ELISA). The present sequence represents a human contracted protein-encoding cDNA of the invention.

Query Match 2.7%; Sc Best Local Similarity 100.0%; P Matches 27; Conservative 0;

Score 27; 58 22; Length 1102; Pred. No. 0:11; 0; Mismatches 0; Indels

0; Indels o,

Sequence 1182 BP; 274 A; 170 C; 209 G; 519 T; 10 other;

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Sequence 1917 BP; 558 A; 286 C; 349 G; 724 T; 0 other;
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Guery Maich. 2.7%; Score 27; DB 22; Length 1917; Best Local Similarity 100.0%; Fred. No. 0.1; Matches 27; Conservative 0; Mismatches 0; Indels

0 Gaps

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AAH73960 standard; cDNA; 2781 BP.
XX
AC AAH73960;
XX
AC AAH73960;
XX
AC AAH73960;
XX
AC AAH73960;
XX
AC Muman halix-destabilising enzyme C2
XX
AC Human, helix-destabilising enzyme C2
XX
AC Human, helix-destabilising enzyme C2
XX
AC Human, helix-destabilising enzyme C3
XX
AC Human, helix-destabilising enzyme C4
XX
AC Human; helix-destabilising enzyme C5
XX
AC Human; h
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Human; helix destabilising enzyme C20: cytostatic; virucide: immulodulatory; antiinflammatory; haemostatic; gene therapy; maljygant, cumour; haemopathy: HIV infection: immunological disease;

Human helix-destabilising enzyme C20 coding sequence.

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Page 8
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SO CCCCCXX
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Best Local Similarity 100.0%;
Matches 27; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 6; Page 29-30; 35pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-JAN-2001; 2001WO-CN00079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-AUG-2001.
                                                                                   exon
                                                                                                                                                                      exon
                                                                                                                                                                                                                                                                                Dectin-2; dendritic cell; c-type lectin; mouse; immunity; adjuvant; allery; autoimmune disease; gene therapy; vaccine; dispnosis; drug screening; ss.
                                                                                                                                                                                                                                                                                                                                          Mouse dectin-2 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 2781 BP; 711 A; 637 C; 595 G; 837 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence is the coding sequence for human helix-destabilising enzyme C20. The enzyme and its coding sequence are useful in the diagnosts and treatment of mallyanat tumour, haemopathy, HIV infection, immunological diseases and various inflammations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human helix-destabilizing enzyme C20 and encoded polynuclectide, used in diagnosis and treatment of malignant tumors, hemopathy, human immunodeficiency virus infection, immunological diseases and inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mao Y, Xie Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (BIOD-) BIODOOR GENE TECHNOLOGY LTD SHANGHAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-JAN-2000; 2000CN-0111591.
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exon
                                                                                                                           intron
                                                                                                                                                                                                                                                       Mus sp.
                                                                                                                                                                                                                                                                                                                                                                   09-NOV-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                  AAV42558;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-483253/52.
P-PSDB; AAG64390.
                                                                                                                                                                                                              promoter
                                          intron
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                                                                                                          /note* *(Claim 136)*
147..171
/*tay- b
/number- 1
172..632
/*tay- c
                                                                   /number= 1
633..727
/*tag= d
                                      /*tag= d
/number= 2
728..2223
                                                                                                                                                                                                                            ocation/Qualifiers
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:: Pred. No. 0.098:

0; Mismatches 0; Indels (
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WPI; 1998-377594/32.
P-PSDB; AAW63010.
                                                                                                                           Ariizumi K. Takashima A:
                                                                                                                                   (TEXA ) UNIV TEXAS SYSTEM
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                                                                                                                                                                           CXCD
                                                                                                                                                22-LEC-1997;
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                                                                                                                                          96US-0772440
                                                                                                                                                97WO-US23761
                                                                                                                                                                    /number 3 2325..5746 /*tay= 9 /number * 3 5747..5698 h /number * 4
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K.cièic acid encoding dendritic cell specific peptide(s) dectin-l and '2' userul, e.g. to regulate immune response, as vaccine adjuvants, for diagnosis and drug screening

Claim 7; Page 159-165; 200pp; English.

Sequence 10409 BP; 2816 A; 1968 C; 1976 G; 3541 T; 108 other;

RESULT 13
AAX83005
ID AAX830
XX
AC AAX830
XX Guery Match. 2.7%; Score 27; Lis 19; Length 10409; Best Local Similarity 100.0%; Pred. Mc. G. 084; Matches 27; Conservative 0; Mismatches 0; Indels 0 AAX63005; AAXB3005 standard; DNA; 29604 BP 0; Indels 0; Gaps

0

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RESULT 14
ARZ61522/
TD ARZ61522 standard; DNA; 44576 BP.
XX
AZ 61522;
XY
T 19-JUN-2000 (first entry)
T 19-JUN-2000 (first entry)
DE Cosmid CVO14 containing rat vasopre
DE Cosmid CVO14 containing rat vasopre
XX
Oxyroxin expressed sequence tag; 5'
KW transyenic animal; human late onset
XW transyenic animal; human late onset
XW male infertility; wasting; anorexis
XW male infertility; wasting; anorexis
XW burn; cancer; bone disease; vasopre
XX
OS Rattus sp.
XX
WO200009686-A1.
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                                                                                                                                                                                                                                                                                                                                                                                       onery Mac 15 initiarity 100.0%; Prod. No. 0.075; Best Local Similarity 100.0%; Prod. No. 0.075; Matches 27; Conservative 0; Mismatches 0; Indels v
                                                                                                                                                                                                                                                                                                                               12-APR-1996;
29-DEC-1995;
29-DEC-1995;
30-JAN-1996;
30-JAN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This sequence represents a fragment of the genomic sequence containing the coding region for the mouse WRM gene (AAM83001). The corresponding human gene (AAM83001) encodes a protein related to Merner's symatome. The products can be used for the detection and treatment of Warner's syndrome (MS), an autosmal recessive disorder with a complex phenotype, as well as related diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mouse: WRN; Werner's syndrome; detection; diagnosis; autoschal; recessive disorder; phenotype; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; Fig 7; 153pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (DARW-) DARWIN MOLECULAR CORP
(OSHI/) OSHIMA J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         W09724435-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Partial mouse WRN genomic sequence #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-AUG-1999 (first entry)
                                                                           Oxytoxin expressed sequence tag; 5'-OT EST; obesity; fertility; male; transgente animal; human late onset obesity; late onset visceral obesity; male infertility; wasting; anorexia; cachexia; malabsorptive state; catabolic state; inflammatory condition; Crofin's disease; Al.-S wasting; burn; cancer; bone disease; vasopressin; oxytocin; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1997-363671/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fu Y, Mulligan J, Oshima J, Schellenberg GD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-JUL-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 29604 BP; 7634 A; 5861 C; 5985 G; 10123 T; 1 other:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Isolated nucleic acid molecule encoding the WRN gene product useful for detection and treatment of Werner's syndrome, and
                                                                                                                                                                    Cosmid CVO14 containing rat vasopressin and oxytocin locus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          960S-0632175.
950S-0009409.
950S-0580539.
960S-0010835.
960S-0594242.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96WO-US20785
                                                                                                                                                                                                                                                                                                                                                                                               c.
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                                                                                                                                                                                                                                                                                                                                     RESULT 15
AAI16817
ID AAI168
XX
AC AAI168
                                                                                                                                                                                                                                                                                                                                                                                                                                        PRESENTATION OF STREET STREET
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Best Local Similarity 100.0%; P
Matches 27; Conservative 0;
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Score 27; Db 21; Length 44576; Pred. NJ. 0.072; 0; Mismatches 0; Indels n.

0;

Gaps

0:

04-FEB-2000; 20000S-0180312.
26-HAY-2000; 20000S-0207156.
30-JUN-2000; 20000S-6608408.
30-JUN-2000; 20000S-6632366.
21-SEP-2000; 20000S-0234687.
27-SEP-2000; 20000S-0236359.

05-AUG-2001.

W0200157276-K2 Homo sapiens.

30-JAN-2001; 2001WO-US00670

Probe: human; microarray; gene expression; cervical epithelial cell; cervical cancer; ss.

Probe +6750 for gene expression analysis in human cervical cell sample.

12-001-2001

(first entry)

AAI16817 standard; DNA; 535 BP

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The present sequence represents cosmid CVO11, which contains the rat cost vasopressin and cxytocin locus. The specification describes 5 OT EST (CX toxytoxin expressed sequence tag) polypeptias. The 5-OT EST gene is convolved in the control of obesity and fertility in males. 5'-OT EST convolved cashs are useful for producing transgenic animals. The convolved cashs are useful for producing transgenic animals. The cobasity and other related disorders and are also used for identifying the greater cause of obesity. Compounds which modulate 5'-OT EST compression or activity are useful in the treatment or modulation of alternative animals. The compression or activity are useful in the treatment or modulation of alternative associated with prolonged lilness, or malaisorptive states or cachesia associated with prolonged lilness, or malaisorptive states conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or conditions, Croin's disease or AIDS vasting, or burns, or cancer, or c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 5; Page 129-154; 162pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12-AUG-1598;
06-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New anti-obesity polypeptide useful for treating obesity or infertility in maximis \cdot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-224331/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Robinson ICAF, Stoye JP, Flavell D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MEDI-) MEDICAL RES COUNCIL.
Sequence 44576 BP; 12157 A; 10993 C; 10857 G; 10569 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98G8-0017566
99GB-0010522
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wells SE, Le Tissier
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04-OCT-2000; 2000GB-0024263

(MOLE-) MOLECULAR DYNAMICS INC

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В
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Best Local S
Matches 25
                                                                                                      04-FEB-2000: 2000US-0180312
26-MAY-2000: 2000US-0508120
30-JUN-2000: 2000US-05081408
03-MAC-2000: 2000US-0512356
21-SEP-2000: 2000US-021659
27-SEP-2000: 2000US-021659
04-CCT-2000: 2000US-0024233.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to human single exon nucleic acid probes (SEMP). The present sequence is one such probe. The SEMPs are derived from human helda cells. The SEMPs can be used to produce a single exoc microarray, which can be used for measuring human garac expression in a sample derived from human cervical epithelial cells. By measuring yene expression, the probes are therefore useful in grading and/or staging of diseases of the cervix, notably cervical cancer.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from Wifel at fip.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 25; SEQ ID No 6750; ARIPP; English.
                                                                                                                                                                                                                                                                                                                                                                                        probe; microarray: human; placenta; antenatal diagnosis;
genetic disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human genome-derived single exon nucleic acid probes useful for
analyzing gene expression in human cervical epithelial cells .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-488901/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Penn SG, Hanzel DK,
                                                                                                                                                                                                                                                                                                                                                                                                                                          probe #9116 used to measure gene expression in human placenta sample
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-OCT-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAI40430;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 535 BP; 144 A; 127 C; 70 G; 154 T; 0 other;
                                                                                                                                                                                                                                                                                    09-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAI40430 standard;
                                                                                                                                                                                                                                                                                                                     WO200157272-A2
                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
WPI; 2001-488897/53.
                                      Penn SG,
                                                                       (MOLE-) MOLECULAR DYNAMICS INC
                                                                                                                                                                                                                                                30-JAN-2001; 2001WO-US00663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tch 2.5%;
al Similarity 100.0%;
25; Conservative (
                                      Hanzel DK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chen W. Rank DR;
                                        Chen W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.
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                                        Rank
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 22: Length 535:
0.72:
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$$$666668$$$
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                                                       Query Match
Best Local S
Matches 25
                                                                                                                                                The present in mention relates to single exchinucleic acid probes (SENF). The present sequence is one such probe. The probes are useful for producting a microarray for predicting, measuring and displaying gene expression in samples derived from human placenta. The probes are useful for antenatal diagnosis of human genetic disorders.
                                                                                                                        Sequence 535 6P; 144 A; 127 C; 70 G; 194 I; 0 other;
                                                                                                                                                                                                                                   C1415
ch 2.5%;
l Similarity 100.0%;
25; Conservative
                                                                                                                                                                                                                                   ID No 9116; 654pp; English
                                                         0
                                                     Score 25; DB; Pred. No. 0.7
0; Mismatches
                                                                      DB 22; Length 535; 0.72;
                                                             0;
                                                             Indels
                                                              0
                                                             Gaps
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Probe: numan: microarray; gene expression; cervical epithelial cell; cervical cancer; is. Prote #6466 for gene expression analysis in human cervical cell sample. AA116533 standard: DNA; 554 BP 12-001-2001 (first entry) AAI16533; Homo Sapters W3200157278-AZ.

05-406-2001.

30-JAN-2001; 2001W0-US00670

INC

04-FEB-2000-20008-0180312
26-HAY-2000-200008-0070456
30-JUN-2000-200008-002456
01-AUG-2000-200008-062236
01-SEP-2000-200008-0226359
01-CCI 2000-200008-022458 (MOLE:) HOLECULAR EYNAMICS

renn so, Hanzel EK, Chen W. kank ba;

WPI: 2001-488501/53.

Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human cervical epithelial cells -

Claim 25; SEQ ID NO 6466; 487pp; English.

The present invention relates to human single exon nucleic acid probes (SEMP). The present sequence is one such probes. The SEMPs are derived from human Hella cells. The SEMPs can be used to produce a single exon increarray. Which can be used for measuring human gene expression in a sample derived from human cervicel epithelial cells. By measuring pene expression, the probes are therefore useful in grading and/or staging of diseases of the cervix, notably cervical cancer. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIFO at tip.wipo.int/pub/published_pct_sequences.

Sequence 554 bP: 147 A; 100 C; 113 G; 154 T; 0 other;

Human genome-derived single exon nucleic acid probes asstul for analyzing gene expression in human placenta

AAL02701;

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Best Local Similarity 100.0%; P
Matches 25; Conservative 0;
                                                                                                                                                                                                                                                        04 FEB 2000;
26 MAY 2000;
30 JUN 2000;
03 AUG 2000;
21 SEP 2000;
27 SEP 2000;
04 OCT 2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAI39509;
                                                                                                                                                                                                                                                                                                                                                                                              09-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                          WO200157272-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           probe; microarray; hu
genetic disorder; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Probe #8195 used to measure gene expression in haman placenta sample.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-OCT-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAI39509 standard; DNA; 554 BP
                      The present invention relates to single exon nucleic acid probes (SEAr). The present sequence is one such probe. The probes are useful for producing a microarray for predicting, measuring and displaying gene expression in samples derived from human placents. The probes are useful for antenatal diagnosis of human genetic disorders.
                                                                                                                                                                                                   Penn SG, Hanzel DK, Chen W, Rank Dk;
                                                                                                                                                                                                                              (MOLE-) MOLECULAR DYNAMICS INC
                                                                                                                                                                                                                                                                                                                                                                   30-JAN-2001; 2001WO-US00663
                                                                                                        Claim 25; SEQ ID No 8195; 654pp; English.
                                                                                                                                                                           WPI; 2001-488897/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human genome-derived single exon nucleic acid probes useful for
analyzing gene expression in human placenta -
                                                                                                                                                                                                                                                        2000US-0180312.
2000US-0207456.
2000US-0608408.
2000US-0632368.
2000US-0234687.
2000US-0236359.
2000US-0236359.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          human; placenta; antenutal diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 25: DB 22: Length 554: Pred. No. 0.72: O: Mismatches O: Indels
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Query Match 2.5% Best Local Similarity 100.00 Matches 25; Conservative

2.5%; 5-100.0%; Pr

Score 25; Pred. No. Mismatches

DB 22; Length 554; 0.72; ö

Indels 0;

e days

RESULT 20 AAZ53815

AA293815 standard; DNA; 144460 BP

AA253815;

Query Match 2.5%; Best Local Similarity 100.0%; Matches 25; Conservative (

0:

Score 25; DB 22; Pred. No. 0.46; 0; Mismatches 0

0; indels 0; Length 27150;

Galis

Sequence 554 BP; 147 A; 100 C; 113 G; 154 T; 0 other;

AAD02701 standard; DNA; 27150 BP

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ce present sequence is human glycosyl sulforransferase-6 (GST-6) cyclonic DNA.

GST is a type 2 meatrane protein useful for inhibiting a binding e.e.f. GST is also type.

CC GST is a type 2 meatrane protein useful for inhibiting a binding e.e.f. CC between a selectin and a selectin ligand, which comprises contacting the selectin with a for-sulphation activity of GST and a small molecular contacting the selectin mediated binding event. GST is also useful for a inhibiting a selectin mediated binding event. GST is useful in gine contacts, polymyositis, dermacomyositis, systemic selections (manufold arthritis, polymyositis, dermacomyositis, systemic selections. Habbete, colones of plymyositis, dermacomyositis, systemic selections. Habbete, colones (Tave's disease, adrenaltits, hypoparathyroidism, pernicious disease, Crave's disease, adrenaltits, hypoparathyroidism, pernicious careaditis, mysocarditis, regional enteritis, adult respiratory distress concentral asthma, hypoparathyroidism, pernicious concentral asthma, hypoparathyroidism, pernicious careaditis, mysocarditis, regional enteritis, adult respiratory distress concentral asthma, hypoparathyroidism, pernicious careaditis, regional enteritis, dult respiratory distress concentral asthma, hypoparathyroidism, pernicious careaditis, regional enteritis, dult respiratory distress concentral asthma, hypoparathyroidism, pernicious careaditis, regional enteritis, dult respiratory distress concentral asthma, hypoparathyroidism, pernicious careaditis, regional enteritis dult respiratory distress concentral asthma, hypoparathyroidism, pernicious careaditis, regional enteritis, dult respiratory distress concentral asthma, hypoparathyroidism, pernicious careaditis, regional enteritis, adult respiratory distress concentral asthma, hypoparathyroidism, pernicious careaditis, regional enteritis, adult respiratory distress concentral and the pernicious careaditis, regional enteritis, adult respiratory distress con careaditis, regional enteritis, adult respiratory distress caread
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human glycosyl sulforransferase-6 (GSI-6) genomic DNA #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New glycosyl sulforrensferases (GSI)-talpha, GSI-tbeta and GSI-6 to diagnostic and therapeutic agent screening applications .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2; Page 116-123; 12spp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-138471/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-JUL-1999; 9903-0144694
13-JUL-2000; 2000US-0593628
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Sequence 27150 BP; 8357 A; 5396 C; 5358 G; 7558 T; 1 other;
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/*tag* r
/note- *Polymorphic base A or C*
51088
/*tag* s
/note- *Polymorphic base G or C*
51187
/*tag* u
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/1abel ORF6
/*tag 9
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112454 113369
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//Label ORFIO
//Label ORFIO
complement (113641...114063)
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/note* "Polymorphic base G or I"
8192
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/note- *Ubiquitin 2 pseudogene complement*
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1abel* orF1
1abel* OFF2
1abel* OFF3
1abel* OFF3
5714.46661
*tag* oFF4
1bbel* OFF4
0198.81115
*tag* oFF4
0198.8115
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"Polymorphic base G or T"
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	screening for o	and their bial	New fuctions ac		WPI: 2660-317933/27.		Bougueleret L,		(GEST) GENSET.		14-OCT-1598;		13-OCT-1555;		20-APR-2000.		WC200021965-A2.				aliele			allele			allele		٠	allele	
	screening for compounds which bind to the receptor proteins	and their biallelic markers, are useful in genetic analysis	New fuclenc acids encoding ten different olfactory receptor proteins		33/27.		Malekzadeh K;				98US-0104299.		59WO-1B01729.						/note- "Polymorphic base A or G"	/*tag- y	144033	/note- "Polymorphic base A or G"	/*tag- x	141176	/note- "Polymorphic base C or I"	/*tag- w	140066	/note- "Polymorphic base A or G"			/note- *Polymorphic base A or G*
		and in	proteins																												

SXCCCCXXXXX Ten new offactory receptor proteins and their biallelic markers have teen described. The sequences encoding these receptor proteins and which contain the biallelic markers can be used for genotyping. The olfactory receptor proteins can be used to screen for substances which bind to them. See GENESED records AA253816:25 and AAY83386-95. Sequence 144460 BP; 46068 A; 27088 C; 26615 G; 44676 T; 13 other;

Claim 1; Fage 103-141; 155pp; English.

Ş owary Match. 2.5%; Score 25; LB 21; Length 144460; Best Local Similarity 100.0%, Pred. No. 0.38; Matches 25; Conservative 0: Hismatches 0; Indels 0; 0:

Gaps

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RESULT 21 AAH51601 29-AUG-2001 (first entry) AAH51601; AAH51601 standard; DNA; 319608 BP.

sbg1: g34665; sbg2; g35017; g35018; chromosome 13g31-q33; haplotype; biallelic marker; polymorphism; schrzophrenia; bipolar disorder; ds. Human chromosome 13q31-q33 genomic nucleotide sequence.

30-MAR-2000; 2000WO-IB00435.

05-001-2000

K0200058516-A2.

Rey primer_bind

> Location/Qualifiers 7938..7958

/*Lag* 8 /note= *Binds primer 99-27943.rp* 8297.8315

/*tag* b /note* *Binds primer 55-27543-150.mis* 8304...8328

bound_molety+ Probe_59-27543-150

/*tag* d /note* *Biallelic marker Al* complement (8317..6335)

/note= "Binds primer 95-27543-150.mis complement" complement (8446..8465)

/note= *Binds primer 95-27943.pu complement* 21365..21385

note- "Binds primer 99-27935.rp" 21653..21671

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RESULT 22
AAS09301
ID AAS093
                                                                                                                                                                                                                                                                                                                                                       AAH51601 represents a human genomic nucleoride sequence comprising shail, gla665, sbg2, gl3017 and gl35018 mucleuc acid sequences located on the chuman chromosome 13gl1ql31 locus. The nucleoride sequences contain the biallelic markers and polymorphisms. Sequences AAH5162 - AAH5162 and AAB5207 - AAH51631 represent cDNA human sbg1 cDNA sequences and protein products. AAH51627 - AAH51631 and AAB5207 - AAH51652 are used to isolate sbg1 cDNA, with a bg1 exons from different primates are copy sequences abh31627 - AAH51652 - AAH51652 are used to isolate sbg1 cDNA, with a bg1 exons from different primates are copy sequences half1612 - AAH51652 - AH51653 are used to isolate sbg1 cDNA, with a bg1 exons from different primates are copy sequences ahf31612 - AH51651 in label to marker so cated on the chromosome copy of the comprise biallelic markers located on the chromosome copy of the sequences of an ahf51700 - AH51617, in allelic marker so cated to determine the identity of the nucleotide at a biallelic marker of cated biallelic marker in a biological sample copy is determining the identity of a nucleotide at a Region copy is determining the identity of a nucleotide at a Region copy of a trait and a phenotype and a trait can be determed at the copy of a trait and a phenotype and a trait can be determed to determine a predisoposition to or safe cifects related to treatment against schizophrenia or bipolar disorder or a beneficial response to or side cifects related to copy or a copy of a broad copy of a big cifects related to copy of a copy 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-JUL-1999;
27-JUL-1999;
29-JUL-1999;
29-JUL-1999;
29-JUL-1999;
28-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1; Page 409-493; 737pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Polynucleotides comprising sequences from shall and 935v16 bhallelic markers are used for genotyping and detecting schizopi.renia or bipoiar disorder and predisposition to these disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cohen D, Blumenfeld M, Chumakov I, Bougueleret L, Essioux L;
Human; g35030; biallelic marker; Al-A71; chromosome 13q31-q33;
schizophrenia; bipolar disorder; ds.
                                                                           Human schizophrenia associated gene g35030 and biallelic markers Al-A71.
                                                                                                                                                                                                                                  AAS09301 standard; DNA; 319608 SP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 319608 BP; 101600 A; 56677 C; 58335 G; 102722 T; 274 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-615082/59
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                                                                                                                           26-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   tch 2.5%;
al Similarity 100.0%;
25; Conservative (
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990S-0131971.
990S-0132065.
990S-0143926.
990S-0145915.
990S-0146453.
990S-0162288.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 25; DB 21; Length 319608; Pred. No. 0.35; 0; Mismatches 0; Indels 0;
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primer_bind
misc_feature
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é- "Biallelic marker A2" lement (21673..21691) e *Binds primer \$9-27535-153.mis* 0..21664 e id_moiety- Probe_59-27535-153

primer_bind

g- m e- "Binds primer 8-128.pu" 6..65484

em "Binds primer \$4-27935-153.mis complement" Loment (21845...21864) 3- "Binds primer \$4-27935.pu complement" 3...6547]

primer_bind
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misc_teature

/*tag* p
/note* *Biallelic marker A3*
complement (65486..65504)
/*tag* q

id_moiety* Probe_6-126-33

- "Binds primer 6-126-33.mis" ..65497

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primer_bind
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primer_bind
primer_bind
primer_bind

/note- "biallelic marker A4"
Complement (9597, 95415)
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/*note- "Binds primer 99-31960-363.mls complement"
complement (95543, 95563)
/*tag- x

/note- "Binds primer 99-31960.pu" 95377..95395

/notē= *Binds primer 99-31960-363.mis* 95384..95408

.g= u .nd_moiety- Probe_55-31560-363 /*tag* q
/note- *Binds primer 6-128-33.mls complement*
/complement (65656...65874)
/*tag* r
/note- *Binds primer 6-128.rp complement*
/5034...95053

misc_feature misc_binding primer_bind primer_bind

misc_feature misc_binding primer_bind primer_bind primer_bind primer_bind

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misc_binding
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plement (168975..168993)
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ement (161240..161257)

** Binds primer 59.24634.rp complement*
3..168830
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ement (160641..160659)
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- *Biallelic marker A5*
- ement (107282...107300)
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..107280
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*Binds primer 99-7652.rp complement*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ouery Match. 2.5%; Score 25; DB 22; Length 319608; Best Local Similarity 100.0%. Pred. No. 0.35; Matches 23; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                       06-CCT-2000 (first entry)
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                                   21-FEB-2000; 2000EP-0200610.
                                                                                               06-SEP-2000
                                                                                                                                                          EP1033401-A2
                                                                                                                                                                                                                                                                     Human; 5' EST: expressed sequence tag: secreted protein; cDNA isolation;
gene therapy: chromosome mapping; ss.
                                                                                                                                                                                                                                                                                                                                                            Human secreted protein 5' EST, SEQ ID NO: 32377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAC26302 standard; cDNA; 305 BP
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                                                                                                                                                                                                             Home sapiens
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//note* Biallelic marker Al0*
/note* Biallelic marker Al0*
complement (173359.173377)
/*tag* bg
/note* Binds primer 59-5862-167.mis complement*
complement (173495.173514)
/*tag* bh
/note* Binds primer 59-5862.pu complement*
189753..189771
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/*Lag* as 
/note* "Binds primer 55-16100.pu* 
170751...170805

/*Lag* as 
/note* "Binds primer 59-16100-147.mis* 
170763...170872

/*Lag* ay 
/*Lag* 
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18938., 18956
/*tag= bj
/note* *Binds primer 99-5919-215.mis*
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notte- *Binds primer 59-5862-167.mis*
73346.173370
*tag- be
*tag- be Probe_59-5862-167
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oote- "Bialielic marker A9"

maplement (170811..170829)

tag- ba

spiral primer 99-16100-147.mis complement

mote- "Binds primer 99-16100.rp complement"

1062- "Binds primer 99-16100.rp complement"
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*Binds primer 99-5862.rp*
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primer_bind

primer_bind

misc_feature

primer_bind primer_bind primer_bind primer_bind misc_feature primer_bind primer_bind primer_bind primer_bind

16

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The present sequence is one of a large number of 5' ESTs derived from minks encoding secreted proteins. No ORF has yet been conclusively good identified within the present sequence. The 5' ESTs were prepared from containing the present sequence. The 5' ESTs were prepared from containing the first sequences as usually correspond mainly to the 3' untranslated region (UTR) or the mRNA because they are often obtained from oliga-dip raised coNA contained from the 5' ends of mRNAs and even in those cases where longer of derived from the 5' ends of mRNAs and even in those cases where longer of the mRNAs with intact 5' ends and can therefore the configuences have been obtained, the full 5' UTR is rarely included. S' ESTs are derived from mRNAs with intact 5' ends and can therefore the council obtain full length toDNAs and genomic DNAs. 5' ESTs are also used to obtain full length toDNAs and chromosome mapping procedures. Or they are used to obtain out to DNAs and chromosome mapping procedures. Or they are used to obtain out thereby and chromosome mapping procedures. Or they are used to obtain out the stream regulatory sequences and to design out the containing the contains the c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 2.4%;
Best Local Similarity 100.0%;
Matches 24; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; calcium sensitive potassium channel; beta2 subunit; asthma; beta3 subunit; diabetes; chromosome 193-ter; inhibitor; activator; glaucoma; migraine; angina; irritable bowel syndrome; Alzheimer's disease; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID 32377; 71pp + CD-ROM; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New nucleic acid that is a 5' expressed sequence tag (5' ESI) for obtaining cDNNs and genomic DNNs that correspond to 5'ESIs and for diagnostic, forensic, gene therapy and chromosome mapping procedures
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-MAY-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAF27996 standard; DNA; 48000
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Novel human calcium sensitive potassium channel subunits for
                                                                                                     Uebele V, Swanson R, Liu Y, Layrutta A;
                                                                                                                                                     (MERI ) MERCK & CO INC.
                                                                                                                                                                                                                                                          18-JUL-2000; 2000WO-US19585
                                                                                                                                                                                                                                                                                                             25-JAN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human calcium sensitive potassium channel beta3 subunits coding sequence
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                                                                                                                                                                                                                                                                                                                                                             WO200105828-A1.
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; Pred. No. 1.9
0; Mismatches
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misc_reature

/*Lag= b
//abbel= EST_matching_region
/note= "This sequence is specifically claimed"
28364..28405

/note* *Interval associated with neuropsychiatric disorders*
28441..29265

misc_feature Homo sapiens

Location/Qualifiers 28441..144419

satellite pricer_bind

/rpt_type= TANDEM /note= "BADCt22 marker" complement (28547..28572) /label* BADct22_forward 28547..28572 /*tag= d

BADct2_reverse

misc_feature

/labél* ÉST_matching_region /note= "This sequence is specifically claimed" 43518..46075

/label- EST_matching_region note= "This sequence is specifically claimed"

misc_feature

misc_feature primer_bind RESULT 25 AAS04858/c ID AAS04858 standard; DNA; 160271 BP.

07-SEP-2601 (first entry)

Human chromosome 18, BAD18ct22-BAD18cagl.

AAS04#58;

kiman; chrisg; fsh0; bipolar affective disorder; BAD; neuropsychiatric disorder; antibody; schizophrenia Alzheimer's discase; Hintitgdom's disease; Parkinson's disease; amyotrophic lateral schecusis;

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Query Match 2.4%; So Best Local Similarity 100.0%; F Matches 24; Conservative 0;
                                                                                                                                                                 rearring conditions such as astima, hypertension, memory disorders, depression
                                                                            Claim 3; Fig 8; 89pp; English.
                                                                Sequence 48000 BP; 13303 A; 9551 C; 10282 G; 14832 T; 32 other;
                            Score 24; DB 22;
Pred. No. 1.1;
0; Mismatches 0
                              0; Indels 0;
                                           Leagth 48000;
                             Gapo
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misc_feature	misc_feature		misc teature	misc feature	B	misc feature	misc_feature	misc_feature		misc feature	misc_feature	misc_feature	a co fuar cru	misc_feature	misc_feature	misc_feature	misc_feature
/*tag- y /st_mutching_region /note- "This sequence is specifically claimed" 61888.85346	/*day x /*day x /label EST_matchiny_region /note 'This sequence is specifically claimed' 80466.81519	/tage w /label- ESI_matching_region /note- "This sequence is specifically claimed"	<pre>/*tag* v /label* ESI_matching_region /note* 'This sequence is specifically claimed* 77663 78170</pre>	/*tag* u /*tag* u /label* EST_matching_region /note* "This sequence is specifically claimed" 7679, 7713	/tag- t /label- EST_matchiny_region /note- "This sequence is specifically claimed" 77848 76.18	/*tag- ts _matching_region /label= EST_matching_region /note- "THIS sequence is specifically claimed" 71051 7295	<pre>/*tag* r /label* EST_matching_region /note* "This sequence is specifically claimed" 7064370749</pre>	/*tay* q /*tay* q /labe! EST_matching_region /note* "This sequence is specifically claimed" 67841.65670	/tag- p /tag- p /label- EST_matching_region /note- "This sequence is specifically claimed"	6 -	/*tag= n /label* EST matching region /note= *This sequence is specifically claimed* 6087062451	/*Lay* m /abe! EST_matching_region /note* "This sequence is specifically claimed* 598156471	/*tog, 1 /label EST_matching_region /note= "This sequence is specifically claimed" SAOAS SAOAS	/label EST_matching_region /label EST_matching_region /note- "This sequence is specifically claimed" 57032. 57726	/label- Est matching region /note- "This sequence is specifically claimed" 52672.56935	/label - ESI_marching_region /notes 'This sequence is specifically claimed' 47264_52284 /*rag	/*tay- h //abel EST matching_region /note- "This sequence is specifically claimed" 43518.46075 /*tay- i
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RESULET 26
ANSO4864 standard; DNA; 160271 BP
ID ANSO4864;
XX AASO4864;
XX O7-SEP-2001 (first entry)
TO 07-SEP-2001 (first entry)
TO 
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neuropsychiatric disorder; antibody; schizophrenia. Alzhenter's disease;
Huntingdon's disease; Parkinson's disease; amyotrophic lateral sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      misc_feature
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28441 .29265
/*tag* b
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'tag" at 12
/label ESI_matching_region /note. "This sequence is specifically claimed"
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/note= "This sequence is specifically claimed"
43518...46075
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/note- "This sequence is specifically claimed"
40284..43253
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/label= BADct2_reverse
29683..39587
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/note= "BADct22 marker"
complement (28547..28572)
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Anote- "This sequence is specifically claim-u"

28384...28405
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/label* EST_matching_region
/note* "This sequence is specifically claimed"
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"This sequence is specifically claimed"
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//abel* ESI_matching_region
//acte* This sequence is specifically claimed*
52672..56935
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//abab. ESI_matching_region
/note= "This sequence is specifically claimed"
67564..65670
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//abel * EST_matching_region
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63494..66559
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/note* "This sequence is specifically claimed"
62543..63268
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/note* *This sequence is specifically claimed*
57032..57726
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/label- EST_matching_region
/note- *This sequence is specifically claimed*
86346...87569
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/note- "This sequence is specifically claimed"
| 11888.85946
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/note= "This sequence is specifically claimed"
77663..78170
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/note= "This sequence is specifically claimed"
76797..77123
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70643..70749
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59815..60471
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71051..72295
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18571..89188
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/label= EST_matching_region
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89459. 68745
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/label* EST_matching_region
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10.798...103865
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/note- "fhis sequence is specifically claimed"
90436..52299
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//abel- EST_marching_region
/note- *This sequence is specifically claimed*
113774..l16253
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111000..113482
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104486..199841
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101798...133865
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/label* EST_matching_region
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/5556...10121
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//habel- ESP_matching_region
//note- "This sequence is specifically claimed."
115814. 119863
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116846...117907
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//0953...10561
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00530..101382
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primer_bind
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neurodagenerative diseese; Alzheimer's disase; Parkinson's disease;
Erain tumour; discetes; angina peetociis; ds.
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/label- ESI_matching_region
/note- *This sequence is specifically claimed*
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/note- *This region is specifically claimed*
43518..46075
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/note- *PCK primer BAD18ct22 reverse*
40284..43253
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/note- "Fsh23 gene region"
52672..56935
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/note- *This region is 58065..59057

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This is an erroneous range given that the
Sequence is only 160kb in size*
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This invention relates to the present sequence which represents a look fragment of the long arm of human chromosome ldq. The sequence includes the 18q interval associated with neuropsychiatric disorders (uncludiditionally). Included in this region is the fish? gene, which is involved in neuropsychiatric disorders. Included in the invention arc
                                                                                                                                                                                   Claim 1; Fig 1B; 153pp; English.
                                                                                                                                                                                                                                          Nucleic acids encoding mammalian Ish/5 polypeptides associated with neuropsychiatric disorders, useful for treating e.g. bipolar affective disorders.
                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-308772/32.
                                                                                                                                                                                                                                                                                                                                                                                                                     Chen H, Freimer NB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-NOV-1999; 99US-0164038.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-NOV-2000; 2000WO-US30636
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MILL-) MILLENNIUM PHARM INC (REGC ) UNIV CALIFORNIA.
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complement (28384..28405)
/*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /noté- *BADct22 specific primer*
complement (116254..116523)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= *BADct22 marker sequence*
28547..28572
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28440..28483
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"BAD18cag1 specific primer"
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.144501
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144420
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   RESULT 29
AAH23764 standard; DNA: 160271 BP.
TO AAH23764:

XX Human chromosome 18q; fsh26; nootro
KW neuroleptic: hypotensive; gene there
KW collies de la Tourette's syndrome; day

KW collies day

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ED 146597 IGTCTGGCTTATITCACTTAACAT 146974
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Best Local Similarity 100.0%;
Matches 24; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          fragments of the DNA sequence, and antibodies which bind to its protein products. $3,25 DNA and protein sequences, a vector containing the DNA sequence. And an antibody directed against the protein product may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate fsib2 expression. Discreters that may be prevented, diagnosed and/or treated using the DNA, protein, vector and antibody include neuropsychiatric disorders, such as schizophrenia, attention deficit disorder, a schizophreniar affective disorder, a bipolar affective disorder or a unipolar disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Auman, chromoscae 189, fsh/6; nootropic; neuroprotective; BAD18ct2; neurolaptic; typotans war, gene therapy, BAD18cy2; neuropsychiatric disorder; pipolar affective disorder; schizophrenia; neuropsychiatric disorder; manic oppressive lineas; Albeimer's disorder; neurolagene; alter disorder; senie oppressive lineas; Albeimer's disease; neurolagene; alter disorder; senie gementia; Huntington's disease; amyotrophic laceral scheosis; Parkinson's disease; sleep disorder; cilles de la Tourette's syndrome; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human chromosome 18g interval containing the rsh26 gene
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29683..39587
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26441..29265
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57032..57726,
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/note= "This sequence is
10284..43253
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Le- "This sequence
65..59057,
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           "This sequence is specifically claimed in Claim 1"
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1%; Pred. No. 0.9
0; Mismatches
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81888..85946,
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/*tay k

/note- This sequence is specifically claimed in Claim 1*

63194, 6959.

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/note- "This sequence 116846..117907,
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/note= *This sequence
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86346..87569,
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78463..80173,
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/note= "This sequence
/13774..116253,
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111000.113482,
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104486..109841,
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|09953..110561,
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"This sequence is specifically claimed in Claim !"
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	/note* "This sequence is specifically claimed in Claim 1"	ap	140683144419	/note= "This sequence is specifically claimed in Claim 1"	60	135615135963	This sequence	ān	1 34517 135473,	"This sequence is specifically claimed in Claim 1"	an	131136134228,	/note- "This sequence is specifically claimed in Claim in	<u> </u>	130413,	/note- *This sequence is specifically claimed in Claim i	ak	122978185088.	/note= "This sequence is specifically claimed in claim i	a J	.122661.	/noter "This sequence is specifically claimed in claim i	à I
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17 - MAY - 2001

08-NOV-2000; 2000NO-0530824

08-NOV-1959; 5905-0164037.

(MILL-) MILLENNIUM PHARM INC (REGC.) UNIV CALIFORNIA.

Chen H. Freimer NB:

WFI: 2001-335946/35.

I mamalian fishé polynocievide for disposite evaluation, genetic testing and prognosis of ishée related disorders e.g., neuropsychiatric disorders including schizophrenia and hipolar affective disorder.

Claim i; Fig 1B; 174pp; English.

The present sequence is a 116 kb fragment located between markers carbiect22 and BAD18cag1 from numan chicococcame 184. This sequence includes the 184 interval associated with neuropsychiatric disorders, located from positions 26441-144415. This sequence also contains a novel gene: fishing open is associated with bipolar affective disorder (BAD) and the standard as bipolar mood disorder: SF; or manice depressive illness) in carbier and the present sequence or its fragment, analog or minerate is a seful to return a fishing related disorder of ishing market and process in a standard, such as neuropsychiatric disorders and as schloophrenia, and the standard disorders such as schloophrenia, and the standard disorders and schloophrenia disorder of disorder is disease, senile demantia, martington's disease, amyotrophic lateral schrossis, and parkinson's disease, as well as Gilles de la lateral schrossis, and parkinson's disease, as with as hypertension and sleep disorders can be treated.

Sequence 160271 BP: 45618 A; 32964 C; 34928 G; 46703 T; 58 other:

Query Match. 2.44: So Best Local Similarity 100.0%; F Matches 24: Conservative 0; Score 24: LB 22; Length 160271; Pred. No. 0.54; 0; Mismatches 0; Indels 0; Gaps

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AAF85116/C

AAF85116:

AAF85116:

XX

BAD18cag1 marker; fsh28 gene; bipola fig. chromosome l8; c
                                                                                                                                RESULT 31
AAF93676
ID AAF936
XX
AC AAF936
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                                                                                                                                                                                                                                                                                                                                                                                   δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 2.4%; Score 24; DB Best Local Similarity 100.0%; Pred. No. 0.5 Matches 24; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                    The present sequence represents a 160 kb fragment of the long arm of chromosome 18. This region is associated with neuropsychiatric disorders, and contains the fishal gene and markers subject2 and BAD16643. The fishal gene is a gene involved in bipolar affective disorder (BAD). The fishal polyniciatides and polypeptides are used to detect, modilate, or reast chromosome 18g related disorders are used to detect, and other services such as neuropsychiatric disorders, especially schizophrenia, attention deficient disorder, a schizophrenia ettective disorder, a unpolar disorder, can be used to identify an individual having or at risk of developing one of the disorders. The fishal gene and derived polynicipoticles can be used to identify a compound capable of modulating fishal activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BAD18cagl marker; fsh28 gene; bipolar affective disorder; chromosome 18; chromosome 18q, neuropsychiatric disorder; attention deficient disorder; soluzoaffective disorder; unipolar disorder; BAD18ct22 marker; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated mammalian nucleic acid for disposing, monitoring and
treating neuropsychiatric disorders, such as bipolar affector disorder,
schizophrenia, or attention deficient disorder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nucleotide sequence of 160 kb of chromosome 18q
           cDNA isolated from foetal brain tissue encoding SRF protein SEQ ID 497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 160271 BP; 45619 A; 32964 C; 34928 G; 46702 T; 58 other:
                                                                              21-MAY-2001 (first entry)
                                                                                                                                                                                           AAF93676 standard;
                                                                                                                                                                                           CDNA; 553 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 22; Length 160271; 0.54;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
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schizophrenia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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Query Match 2.3%; Best Local Similarity 100.0%; Matches 23; Conservative (

0: Score 23: ; Pred. No. Mismatches

рв 22; Length 553; 4.4; 0 Indels

0 Gaps

0;

Sequence 553 BP; 156 A; 108 C; 51 G; 198 I; 0 other;

AAC57891 standard; DNA; 1001 BP

AAC57691;

25-JAN-2001 (first entry)

Human; biallelic marker; arachidonic acid metabolism; genotyping; detection; hybridisation; phenotype; haplotype; SNP; polymorphic base; single nuclectide polymorphism; hybridisation assay; sequenting assay; specific amplyifoation assay; dentification; ERBH; 12-LO-RBH; ecosamoid-related biallelic marker; 12-LO-related biallelic marker; ds.

Arachidonic acid metabolism related genumic biallelic marker #525

17-AUG-2000 WC200047771-A2 Homo sapiens.

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Sequences AAF$ij80 - AAF$3741 represent polynucleotide sequences encoding human SRI proteins. The cONA sequences are isolated from various CC different human tissue cDNA libraries. The invention relates to a method cifferent human tissue cDNA libraries. The invention relates to a method correcting cNA encoding an SRI protein, a vector containing cNA CC encoding SRI, a host cell transformed with the vector, an isolated SRI colyopeptide, and an antibody which binds to SRI. The polynucleotide ce sequence can be used in gene therapy and is useful in the recombinant production of SRI polypeptides, as a hybridisation probe to screen composition of SRI polypeptides, and a hybridisation probe to screen collibraries to isolate cDNAs with sequence identity to SRI polypeptides, to disorders, tissue typing and disease tissue detection. The SRI collibraries, tissue typing and disease tissue detection. The SRI collibraries, tissue typing and disease tissue detection. The SRI collibraries to include sequences can be used in polymerase chain reaction, cand DNA.
                                                                                                                                                                                                                                                                                                                                                 Claim 2: Fig 457; 663pp; English.
                                                                                                                                                                                                                                                                                                                                                                                        New isolated nucleic acid molecule encoding a SRT polypeptide is for production of recombinant SRT polypeptides, gene mapping, diagnosing genetic disorders and for gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-112729/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      baker KP, Goddard A, Wood WI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GETH ) GENEMIECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-JUL-2000: 2000WO-US20006
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human: SRT; gene therapy; gene mapping; tissue typing:
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12-FEB-1999; 23-MAR-1999; 07-MAY-1999;

990S-0119917. 990S-0275267. 990S-0133200.

11-FEB-2000; 2000WO-IB00184

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RESULT
AAD04475
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       or markers derived from genes involved in anstribes including tiallelic markers derived from genes involved in anstribution and markers derived from genes involved in anstribution and markers derived from genemic regions flanking those genes, wethods from the present convention may be used to select individuals for clinical trials and predict responses to treatment with drugs. The polymacleotides may be used in bybridisation assays, sequencing assays and specific marker (EBBH) or 12-10-related biallelic marker. And for amplifying a segment of nucleotides constituing an elosanoid-related biallelic marker (EBBH) or 12-10-related biallelic marker, and for amplifying a segment of nucleotides constituing a metal of the conditions of the present the markers may be used to detect conditions and genotypes associated with arachisonic acts metabolism. Acc5737 to and genotypes associated with arachisonic acts metabolism. Acc5737 to and genotypes associated with arachisonic acts metabolism. Acc5737 to cand genotypes associated with arachisonic acts whences used in the casemplification of the present invention.

OR N.B. Polymorphic bases (single nucleotide polymorphisms also known as the polymorphic bases (single nucleotide polymorphisms also known as the polymorphic pol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 2.36: So
Best Local Similarity 100.06: E
Matches 23: Conservative 0:
                                                                                                                                                        Human; ADAM-TS; A Disintegrin And Metalloproteinase; antiinflammatory; anglogenesis; bronchial astima; Goodpasture's syndrome; metastasis; heart fallure; cardiac hypertrophy; chronic ischaemic heart disease; sickle cell disease naphropathy; urinary tract obstruction; haemostatic; skeletal muscle disorder; myocardial infarction; blood vessel disorder; myocardial infarction; blood vessel disorder; myocardial infarction; blood vessel disorder; sonorthea; tuberculosis; vasculitis; renal artery santoma: osteoprosis; mumps; gonorthea; tuberculosis; syphilis; spermatocytic santoma: osteoprosis; rickets; osteomalacia; hodshin sy disease; gone therapy; antibacterial; cardiant; tumour; thymoma; vasouropic; cytostatic; virucide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 13; Page 673; 802pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-JUL-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAD04475 standard; cDNA; 5353 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1001 BP; 305 A; 182 C; 279 G; 254 T; 1 other;
                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human 27875 ADAM-TS cDNA, alternative version.
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Location/Qualifiers
36..5096
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Pred. No. 4.1;
0; Mismatches 0; Indels (
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Kovel isolated polypeptide, 27875, a human ADAM-TS (a disintegrin and metalloproteinuse) useful for diagnosis and treatment of disorders of bone, long, heart, skeletal muscle such as osteoporosis, emphysema, angina
                                                                                                                                                                                                                                                                                                                                                                                 mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                             sig_peptide
                                                                                                                                                                                                                                                                                               (MILL-) MILLEGHIUM PHARM INC
                                                                                                                                                                                                                                                                                                                           25-CCT-2000; 2000WO-US29360
                                                                                                                                                                                                                                                            WPI; 2001-300513/31.
P-PSDB; AAE00513.
                                                                                                                                                                                                                                                                                 Kapeller-Libermann K. White D:
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126..5093
/*tay* c
/product*
                                                                                                                                                                                                                                                                                                                                                                                              /product * "Human 27675 ALAM-TS protein"
/transl_except * (pos:ld21..1823, aa:Xaa)
/.ote * Xaa is an unknown amino acid*
35..125 Xaa
                                                                                                                                                                                                                                                                                                                                                                      "Human mature 27875 ADAM-TS protein"
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Claim 7; Fage (15-123; 133pp; English

The present squence is an alternative version of a cDNA encoding C2 7875 protein, a mana ADAM-TS (a disintegrin and metalloproteinase). The control of a control

Sequence 5353 6F; 960 A; 1833 C; 1648 G; 911 T; 1 other;

Length 5353;

Query Match 2.3%; Score 23; DB Best Local Similarity 100.0%; Pred. No. 3.4 Matches 23; Conservative 0; Mismatches DB 22: 0; Indeis 0: Gaps

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04-JUL-2001 (first entry)

AAD01191 standard;

CDNA; 5353

u:

Human 27875 ADAM-TS (a disintegri. and metalloproteinase) cDWA

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The present sequence is a cDNA entaing 28875 protein, a human ADAN-IS CC (a disintegrin and metalloprotein:se) Metalloproteinsee is a protein and integrated in particular metallop. Protein and syradation, cc under growth, metastasis and analysagesis. Nucleotides encoding 27875.

CC 27875 protein and its antibodies are useful for preventing alignosting can directly also dars involving the integrated disorders. These disorders include disorders involving the integrated placent alveolar proteinset. So the analysis are alignostic to a natural value, candian hypertrophy.

CC disorders involving the settai and entire pulses and entire the analysis performed and the analysis and entire the integrated value to see such as a factor trailing such as kipertropathy. So contains a societa since in a second and the contains and epitidy, as such as nonspecific epitalymitis and cribitis, somerine, mamps, tuther allosis and syphilis, specific and contains and sphilis, specific and proteins and epitalymitis, sich as second as factor proteins and epitalymitis and correctly some proteins and epitalymitis, sich as second as factor proteins and epitalymitis, sich as second as factor proteins and epitalymitis, sickle cell disease rephropathy contents for the bone such as actionarcoptais.

CC unitary tract obstruction, disorders of the bone such as actionarcoptais.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; ADAM-TS; A Disintegrin And Metalloproteinase; antlinflammatory; andyopenesis; bronchial asthma; wawpasture's syndrome; metasiasis; heart failure; cardiac hypertrop;; chronic ischemic heart disease; sickle cell disease nephropathy; .:innary tract obstruction; haemostatic; skelvtal muscle disorder; myocarial infarction; blood wessel disorder; syelarial; marction; esantoma; stenosis; was wilktis; renal artery stenosis; maps; gonorrhea; tuberoulosis; syphills, spermatocytic senioma; osteoprosis; ribabdomyosarcoma; glomerulonephritus, bone disorder; Paget's disease; ribkets; osteomalacia; Hodykin; sisease; gene hierapy; anticaterial; cardiant; tumour; thymoma; wasou...;ic; cytostatic; virucide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel isolated polypeptide, 2767: a human ADAN-TS (a disintegrin and metalloproteinase) useful for dispusis and creatment of disorders of bone, lung, heart, skeletal muscic such as osteoporosis, emphysema, angina
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-MAY-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 7; Fig 1; 133pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (MILL-) MILLENNIUM PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-OCT-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kapeller-Libermann R, White D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001-300513/31.
DB: AAE00934
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126..5093
/*tag- c
/product-
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36..125
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADAM-IS protein.
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628 AAICIGIAGATIGCITIGGGTAA 44091

Uwery Match 2.3%; Score 23; EB Best Local Similarity 100.0%; Fred. No. 2. Hatches 23; Conservative 0; Mismatches

LB 22; <u>.</u>.

Length 60331; Indels

0:

Caps

0

The present invention provides inhibitors of histone decetylase enzy, such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HLAC-5, HDAC-C and HDAC-D Thinhibitors may be antisense strands or they may be compounds identifi by contacting the enzyme with the compound and measuring the resultinenzyme activity. These inhibitors are useful for treating cancers and identifying which histone deacetylase is involved in a neoplasia.

5 - i c

Sequence 60331 BP; 26046 A; 14466 C; 13823 G; 25976 T; 0 other;

Artiserse oligonoelectude that inhibits expression of a histone abacetylase, useful for treating act/or alleviating the symptome abacetylase, useful for treating act/or alleviating the symptome receptasia, or for inhibiting neoplastic cell growth in an animal

toms imal

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Disclosure; Page 66-89; 125pp; English.

Macleod AR, Li Z, besterman (METH-) METHYLGENE INC

JM:

2001-016407/02. LB; AAB4955.

J3-MAY-2000; 2000WO-IB01252

9905-0132287

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ACCOSTS STANDARD LICE AND SEGUENT SECURITY SECUR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        itstone descetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C:
HDAC-D: cell cycle; tumourigenesis; cancer; inhibitor; antisense;
yene therapy; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human histone deacetylase HDAC-C coding sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           us-MAR-2001 (first entry)
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Pred. No. 3.4;
D; Mismatches 0; Indels
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RESULT 36
AAC15149
ID AAC151
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AAC26972
ID AAC269
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CC mRMAS encoding secreted proteins. No OKF has yet been conclusively conclusively capacity within the present sequence. The 5: ESTS were prepared from total human RNAS or polyA+ RNAS derived from 30 different tissues. EST sequences usually correspond mainly to the 30 different tissues. EST sequences usually correspond mainly to the 30 different tissues. EST sequences usually correspond mainly to the 30 different cissues. EST sequences Such ESTs are not well suited for isolating cDNA sequences CC derived from the 5' ends of mRMAs and even in those cases where longer CC cDNA sequences have been obtained, the full 5' UTR is rarely included. CC cDNA sequences have been obtained, the full 5' UTR is rarely included. CC cDNA sequences have been obtained, the full 5' UTR is rarely included. CC series are derived from mRMAs with intect 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used CI in diagnostic, forensic, gene therapy and chromosome mapping procedures. CC They are used to obtain upstream regulatory sequences and to design CC expression and secretion vectors.
                                                                                                                                                                                                                                                                                                                                              ф
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 2.2%; Score 22; DB 21; Best Local Similarity 100.0%; Pred. No. 12; Matches 22; Conservative 0; Mismatches 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New nucleic acid that is a 5' expressed sequence tay (5' ESI) for obtaining cDNAs and yenomic DNAs that correspond to 5'ESIs and for diagnostic, forensic, yene therapy and chromosome mapping procedures
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Human secreted protein 5' EST, SEQ ID NO: 31047.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human secreted protein 5' EST, SEQ ID NO: 19224.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 247 BP; 55 A; 39 C; 51 G; 97 T; 5 other;
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                                                              06-OCT-2000 (first entry)
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                                                                                                                                                                                           CDNA; 329 BP
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CC mkNAs encoling sacreted proteins. Rio ORF has yet been conclusively combined to the conclusively conclusive encoling sacreted proteins. Rio ORF has yet been conclusively conclusively concept the ment of the conclusively concept the ment of the conclusively concept the ment of the conclusively correspond mainly to the 3 unitainstated region (URA) of the ment here they are eiten outsined from 1990-dip intended chNA contracts. Since ESIs are not well suited for isolating cDNA sequences derived from the 5 ends of meNAs and even in those cases where longer of the ment of the conclusive ends of meNAs with intend 5. URA is rarely included. Combined ends of the following the first strength of the conclusion in 11 length to DNAs and even the conclusive of the ment of the conclusion of the conclusion
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New nuclaic orid that is a 5' expressed sequence tag (5' ESI) for containing chakes and genomic DMAs that correspond to 5'ESIs and for diagnostic. Greesic, gene therupy and chromosome mapping procedures
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; SEQ 10 31047; 71pp + CD-KOM; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 329 bP; 80 A; 50 C; 66 G; 132 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human 5' EST isolated from a cDNA library SEQ ID NO:488.
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21-001-1999

K09553ú51-A2 Homo sapiens

09-APR-1998; 28-APR-1998; 98US-0057719

09-APR-1999;

99WO-1800712

(GEST) GENSET

Dumas Milne Edwards J, Duclert A,

Giordano

WPI: 2000-038446/03. P-PSDB; AAY65115.

Novel secreted protein 5' expressed sequence tay sequences used in diagnostic, forensic, gene therapy, and chromosome mapping procedures

Claim 1; Page 427; 837pp; English.

AAAC42265 to AAX243075 represent movel 5' expressed sequences, corresponding to human secreted proteins. AAX6451 to AAX2266 to CAAX65438 represent the EST-related proteins corresponding to AAX2266 to CAAX65438 represent the EST-related proteins corresponding to AAX2266 to CAAX643052. The 5' ESTS can be used for producing secreted ...man gene products. They can be used to identify and isolate 5' unitraliated regions (UTRs) and upstream regulatory regions which control the CC location, development stage rate, and quantity of protein synthesis, as city of the CC consoned mapping, and to obtain full length cOAA clones. The ESTS can also be used in forensic procedures to identify individuals, or in CC diagnostic procedures to identify individuals having genetic diseases creating from abnormal gene expression. The products may also be used in CC gene therapy protocols. The nucleic acids encoding signal peptides can be used for directing extracellular secretion of a polypeptide into a membrane, or importing a polypeptide consection of a polypeptide into a membrane, or importing a polypeptide consection of a polypeptide and the identification of new secreted proteins in the CC sequences used to the intertument of the proteins encoded by the EST sequences may be useful in CC also and the identification of new secreted proteins in the CC sequences used to the examplification of the present invention.

Sequence 329 BP; 80 A; 50 C; 66 G; 132 T; 1 other;

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39

AAC36471 standard; DNA; 731 BP

AAC36471;

17-OCT-2000 (first entry)

Arabidopsis thaliana DNA fragment SEQ ID NO: 13931.

Hybridisation assay, genetic mapping; gene appression vartul; protein identification, signal transduction pathway; metabolic pathway; promoter; termination sequence; ss.

Arabidopsis thaliana.

EP1033405-A2.

06-SEP-2000.

25-FEB-2000; 2000EP-0301439.

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RESULT 40
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AAZ22862 standard; cDNA; 1005 6P

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AAZ22862;

Wheat indole-3-glycerol phosphate synthase partial cDNA. 20-DEC-1999 (first entry)

Tryptophan; biosynthesis; transgenic plant; herbicide; indole-3-glycerol phosphate synthase; ds.

Triticum aestivum.

26-MAR-1998;

9805-0075386

99WU-US06582.

22-MAR-1555; 30-SEP-1555 W09949013-A2

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This sequence represents a wheat indole-3-glycerol phosphate synthase controlled to the biosynthesis of tryptophan. Plants are able to synthesise convolved in the biosynthesis of tryptophan. Plants are able to synthesise cartain amino acids, unlike vertebrate animals, which require controlled manno acids, unlike vertebrate animals, which require controlled the plants, the biosynthesis of tryptophan is one such essential amino acids anthrantiate phosphoribosylthesis of tryptophan from chorismic acid requires five enzymatic steps catalysed by anthrantiate synthase, and the phosphoribosylthasis of tryptophan from chorismic acid requires five enzymatic steps catalysed by anthrantiate synthase. Conservate, including the hormone insole-3-generate tryptophan structure than a plucosinolates which card, antimicrobial tryptophan biosynthetic enzymas may be used to generate transpanic plants in which the expression of tryptophan biosynthetic enzymas is attered, including plants having an increased tryptophan content or those which cannot synthesise tryptophan floss of function mutants). Content of these enzymes are involved in a biosynthesis path-sy that does not exist content or specific inhibitors which may be potentially useful as herbicides. As these enzymes are involved in a biosynthesis path-sy that does not exist content or inspection and the propertymes are involved in a biosynthesis of the path-sy that does not exist the content of the propertymes are involved in a biosynthesis enzymes are made to exist the enzymes are involved in a biosynthesis enzymes are such as a propertymes are involved in a biosynthesis enzymes are such as a propertymes are involved in a biosynthesis enzymes are such as a propertymes are involved in a biosynthesis enzymes are such as a propertymes are involved in a biosynthesis enzymes are such as a propertymes are involved in a biosynthesis enzymes are such as a propertymes are such as a propertyme animals, they represent an ideal target for herbicidus.
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Rafalski JA,
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P-PSDB; AAY42527.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated nucleic acids encoding plant enzymes involved in
tryptophan biosynthesis, used to generate transgenic plants, and
enzymes used as herbicide targets.
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A, Tao Y, Vollmer SJ:
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RESULT 41
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Best Local Similarity 100.04; Pred, No. 10;
Matches 22; Conservative 0; Mismatches 0; Indels
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Sequence 1005 BP; 282 A; 189 C; 270 G; 264 1; 0 other;

25-FEB-1999; 05-MAR-1999;

99US-0121825 99US-0123180

25-FEB-2000; 2000EP-0301439.

06-SEP-2000. EP1033405-A2

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Best Local Similarity 100.0%; I
Matches 22; Conservative 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human cDNA sequence SEQ ID NO:16978.
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WPI; 2001-318749/34.

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RESULT 43
AAOS5138
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XX AAOS51
AAOS61
AAOS51
AAOS5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes primer sets for synthesising 5602 (full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligonal primer and an oligonal primer complementary to the 5002 nucleotide sequences defined in the specification, where the oligonal polynucleotide ventures at the 5002 nucleotide sequences defined in the specification, where the oligonal polynucleotide comprises at least 15 nucleotides; or (b) a combination of a polynucleotide comprises a 5'-end combination of a polynucleotide which comprises a 5'-end complementary to the complementary strand of a polynucleotide which comprises a 5'-end combination of the specification. The primer sets can be used in antisense therepy and configurate the specification. The primer sets can be used in antisense therepy and configurately full-length cDNAs. The primers are also useful for the polynucleotides of detection and/or diagnosis of the abnormality of the primers are also useful for the full-length cDNAs. The primers are also useful for the configuration of the full-length cDNAs. The primers are also useful for the configuration of the full-length cDNAs. The primers are also useful for the configuration of the full-length cDNAs. The primers are also useful for the configuration of the full-length cDNAs. The primers are also useful for the configuration of the full-length cDNAs. The primers allow obtaining of the full-length cDNAs. The primers allow obtaining of the full-length cDNAs. The primers allow obtaining to the full-length cDNAs. The primers allow obtaining to the full-length cDNAs. The primers are cDNAs sequences; AAB19416 to CAB11562 to AB11562 to AB11562 to AB11562 to AB11562 to AB11562 to AB11562 configuration.
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Matches 22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Probe; S.aureus; S.epidermis; E.taecalis; K.pneumoniae; E.cloacae; clinical sample;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ55138;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Staphylococcus epidermidis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Staphylococcus epidermidis probe SE-22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1796 BP; 657 A; 319 C; 372 G; 448 T; 0 other;
WPI; 1994-035086/04
                                                                      Eda S, Matsuhisa A,
                                                                                                                                            (FUSO ) FUSO PHARM IND LTD (OHNO/) OHNO T.
                                                                                                                                                                                                                                                       07-JUL-1992;
                                                                                                                                                                                                                                                                                                                    07-JUL-1993;
                                                                                                                                                                                                                                                                                                                                                                                          20-JAN-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO9401583-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAQ55138 standard; DNA; 8654 6P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 al Similarity 100.0%;
22; Conservative U
                                                                                                                                                                                                                                                       92JP-0179719
                                                                                                                                                                                                                                                                                                                    93WO-JP00936
                                                                          Ohno T,
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; Pred. No. 9.5
u: Mismatches
                                                                               Uehara H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 22; Length 1796;
. 9.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P.seruginosa; E.coli;
ds.
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SXCCCCCCCCCXXXIIIX
                                                                                               Probe for identifying bacteria causing consists of a DNA fragment obtained by pathogenic bacterial genomic DNA
                                                                                                         infectious disease .
HindIII cleavage of the
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Claim 4; Page 30-35; 100pp; Japanese.

The nuclectide sequence of an 8654 pt priche obtained by digestion of Staphylococcus epidernious genomic with with the restriction enzyme Hiddline rubes (AA055133-48 and AA05573-58) represent other probes derived by the probes described in the probes of Saureus, spidernis Enterococcus facculis, beaudomonas aeruginosa, E.coli, Riestalia pneumonias or interobacter cloaceae The probes can be used to detect their respective microcytomisms in clinical samples. Sequence 8654 BP; 2668 A; 1137 C; 1362 G; 3186 T; 1 other:

Duery Match 2 21; Score 22; DB 15; Length 8634; Best Local Similarity 100.0%; Pred. No. 8; Hatches 22; Conservative 0; Mismatches 0; Indels (

0; Gaps

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RESULT 44
AA162937
ID AA16293

AA162937 standard; DNA; 11617 E P

Human genomic DNA SEQ ID NO 265. 22-GCI-2001 (first entry)

Human, contropic, neuroprotective, cytostatic, dermatclopical; virucie; immunosppressive, antinflammatory; anti-HV antibaterial; vulnerary; anti-parkinsonan, antisicking; antibacamic; antiarthritic, antiscamic, antiscamic, antiparking antibacamic, antiarthritic, antiparking antibacamic, antibatery disorder; antibatery disorder

Homo sapiens.

K0200155449-A1

02-AUG-2001.

17-JAN-2001; 2001WO-US01346

11-JAN-2000; 2000IS-0179065
01-FEB-2000; 2000IS-0179065
15-FAY-2000; 2000IS-025815
15-FAY-2000; 2000IS-025815
16-JUL-2000; 2000IS-021890
11-JUL-2000; 2000IS-021890
11-JUL-2000; 2000IS-0225847
01-SEP-2000; 2000IS-0230437
06-SEP-2000; 2000IS-0230437
08-SEP-2000; 2000IS-0231443
25-SEP-2000; 2000IS-0231449
25-SEP-2000; 2000IS-0231499
25-SEP-2000; 2000IS-0246876
08-NOV-2000; 2000IS-0246676
08-NOV-2000; 2000IS-0246676
08-NOV-2000; 2000IS-0246678
17-NOV-2000; 2000IS-0246828
17-NOV-2000; 2000IS-02468218
17-NOV-2000; 2000IS-02468218

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RESULT
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Matches 22
                                                                                                                                                                                                                                                                                                                                                                        MICA: MHC class I chain-related gene A: human; major histocompatibility complex: krain cancer; lymphatic cancer; liver cancer; stomach cancer; cancer; cancer; carvical cancer; leukaemia; melanoma: head and neck cancer; oesophageal cancer; colon cancer; breast cancer; neg cancer; ovary cancer; prostate cancer; tenal cancer; neg cancer; ovary cancer; inflammatory bowel disease; adoptive immunotherapy; therapy: dispnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rosen
                                                                                                                                                                      Human
                                                                                                                                                                                                                                                                                 AAV34455 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel plasma membrane associated proceins useful for displasma treating, preventing and/or prognosing disorders related to the proteins, including cancer, immune response and neuronal disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-476225/51.
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                                                                                                                                                                                                                                            AAV34455;
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                                                                                                                                                                                                                                                                                                                    4.5
                                                                                                                                                                 MHC class I chain-related gene A (MICA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CA,
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l Similarity 100.0%; F
22; Conservative 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0249214
2000US-0249255
2000US-0250160
2000US-02511030
2000US-02511986
2000US-0251198
2000US-0251198
2000US-0251199
2000US-0251199
2000US-0251990
2000US-0254097
                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8P;
                                                                                                                                                                                                                                                                                 DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ruben SM;
                                                                                                                                                                                                                                                                                 11722
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; Pred. No. 7.7
0: Mis.atches
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TO
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7.7;
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  WFI: 1998-272392/24.
P-PSDB: AAW60043.
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                                                                                                                                                                                                                                                                                                                                                                                                                               (HUTC-) HUTCHINSON CANCER KES CENI FRED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-001-1556;
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Homo M09819167-A2 Sapiers /*tay- i
fnumber- 4
8732.8465
/*tay- j
fnumber- 5
86870.11420
/*tay- k
fnumber- 5
11421.11722
/*tay- 1 /*tag= g /number= 3 8354.8632 /*tag= h /number= 4 8633.8731 /*Lag= b /number= 1 110..6949 110.e949 c/Lag= c /number= 1 6950..7204 /*Lag= d /*tag= f /number= 3 7767..8353 /*tag" e /number- 2 7479..7766 /*Lag- d /humber- 2 7205..7478 Location/Qualifiers *cuntains TILLICUS.

This is the human cell stress regulated MHC class I chain-related gene A (MCA). It was obtained from single-stranded (MLI) and double-stranded (pCLI) templates of mapped or randomly shot-gun subcload DNA fragments that were derived from cosmid MIA. The gene is located 40 kb contromeric of HLA-b. It codes for a 385 maino acid polypeptide (see AMABUGA). A cDLA clone (see ANV34456) coding for closely-related MICA sepressed at the liming of the gastrointestinal tract, the primary site of infectious attack, and a major target for complications arising from graft-versus has disease (GVHD). They are also expressed at the cell surface of Disclosure; Page 164-111; 125pp; English. Use of MHC-related molecules, MICA and MICB - as targets for the detection and treatment of cancers and for isolating specific I cell populations which can be used for immunocherary

9605-0625044. 97W0-052v170

Sequence 11722 BP; 2414 A; 2996 C; 2828 G; 3484 T; 0 other;

Query Match 2.2%; Score 22; DB 19; Length 11722; Best Local Similarity 100.0%; Pred. no. 7.7; Matches 22; Conservative 0; Hismatches 0; Indels 0; 0; Indels 0; Gaps

0:

Search completed: April 30, 2002, 11:14:24 Job time: 12133 sec

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Title:
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Maximum DB seq length: 2000000000
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1: /cgn2_6/ptcdata/1/ina/5A_COMB.seq:*

2: /cgn2_6/ptcdata/1/ina/5B_COMB.seq:*

3: /cgn2_6/ptcdata/1/ina/6B_COMB.seq:*

4: /cgn2_6/ptcdata/1/ina/6B_COMB.seq:*

5: /cgn2_6/ptcdata/1/ina/6B_COMB.seq:*

6: /cgn2_6/ptcdata/1/ina/backfiles1.seq:*
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Copyright (c) 1993 - 2000
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US 08-18-23-56-14

US 08-18-23-65-14

US 08-18-25-12-1

US 08-18-15-66-1

US 08-18-15-66-1

US 08-18-16-56-1

US 08-18-16-56-1

US 08-11-56-1

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Compugen Ltd.
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Sequence 27, Applisequence 1, Applisequence 2, Applisequence 11, Applisequence 11, Applisequence 22, Applisequence 11, Applisequence 14, Applisequence 14, Applisequence 16, Applisequence 17, Applisequence 17, Applisequence 27, A
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US-06+45+56A-133
US-06+45+56A-133
US-06+45+56A-133
US-06+45+660-13
US-06+45+660-13
US-06+45+660-13
US-06+311-016-13
US-06+311-016-13
US-06+311-016-13
US-06+311-016-13
US-06+311-016-2
US-06-311-016-2
US-06-3
                                                         Sequence
133, App
134, App
134, App
135, App
135
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ALIGNMENIS

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SEQUENCE CHEACHER SEC ID MO. 2
SEQUENCE CHEACHER SITICS:
LENGH: 654 base pairs
TYPE: LENGE at a cold
SIRANDEMESS: single
100LGX: linear
US-04-040-544-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSE: SEED AND BERKY LLP
STREET: 6300 Columbia Center, 701 fifth Avenue
CITY: Seattle
STATE: MA
COUNTKY: USA
ZIP: 56104
COMPUTER READMALE FORM:
MEDIUM TYFE: Diskatte
COMPUTER: THE COMPUTER: FORM:
MEDIUM TYFE: Diskatte
COMPUTER: THE COMPUTER: FORM:
MEDIUM TYFE: Diskatte
COMPUTER: THE COMPUTER: STATE
COMPUTER: THE COMPUTER: OS THE COMPUTER: THE COMPUTER: THE COMPUTER: OS THE 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 27, Application US/09040984
Patent No. 6210883
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANI: Reed, Steven G.
APPLICANI: Wang, IorgTong
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS
TITLE OF INVENTION: OF LUNC CANCER
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                  27:
```

Overy Match 55.5%; Score 315; DB 4; Length 65
Best Local Similarity 100.0%; Pred Mo 2.7e-129;
Matches 315; Conservative 0; Mismatches 0; Indels

Length 654;

0,

Gaps

```
APPLICANT: GUENTHERY, Ursula
APPLICANT: MATZKI, Siegried
APPLICANT: MATZKI, Siegried
APPLICANT: MENZL, Achim
TITLE OF INVENTION: VARIANT CO14 SURFACE PROTEINS, DNA
TITLE OF INVENTION: SEQUENCES CODING THESE, ANTHODIES AGAINST THESE FRUITCION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & Lardner
STREET: 3000 K Street, N.M., Suite 500
CITY: MASHINGTON, D.C.
TIP: 2000**
                                                                                                                                                                                                                              ZIF: 20007-5109
COMPUTER REDABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-POS/AS-DOS
SOFTWARE: Patentin Release #1.0. Version #1.25
CURRENT APPLICATION NOTA:
APPLICATION NUMBER: US/07/946,497
FILING DATE: 1991109
CLASSIFICATION: 4351
ATTORREY/AGENT INFORMATION:
NAME: BENT, Stephen A.
RECISTRATION NUMBER: 29,768
REFERENCE/COCKET NUMBER: 15915/115
TELEPOMMUNICATION INFORMATION
TELEPERX: (202)672-5399
TELEFEXX: (202)672-5399
                                                                                                     TELEX: 904136
INFORMATION FOR SEO ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3007 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: Incert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301 ctgtcattacttagattcc 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 tgggaggtccgaacattttctgasttcccattttcttgttcgcgctaaatgacagttt 300
328 TuggcaggtccgaacATTTTCTGAATTCCCATTTCTTGTTCGCGGCTAAATGAAGTTT 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 p-Meta-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/07946497 506119
       CDS
113..1624
    5
                                                                     Overy Match 4.0%; Score 23; Lb ]; Length 3207; Best Local Similarity 100.0%; Pred, No. 0.21; Matches 23; Conservative 0; Mismatches 0; Indels
```

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COMPUTER FORM:

KEDIUM TYPE: Floppy disk

COMPUTER: IBM CC COMPAILLE

COMPAILLE

APPLICATION NUMBER: US 07/946,497

FILING DATE: 09-NOV-1952

AITORNEY/AGENI INFORMATION:

RECISITATION NUMBER: 29,768

REFERENCE/COCKET NUMBER: 16915/145

TELECOMMUNICATION INFORMATION:

TELEFIAX: (202)672-5390

TELEFIAX: (202)672-5390

TELEFIAX: (202)672-5390

TELEFIAX: SOME IBM COMPAILLE

INFORMATICN FOR SEG ID NO: 1:

SEQUENCE CHARACTERISTICS:

LEGGIH: JOD base pairs

INFORMATICN FOR SEG ID NO: 1:

SEQUENCE CHARACTERISTICS:

LEGGIH: JOD base pairs

INFORMATICN FOR SEG ID NO: 1:

SEQUENCE CHARACTERISTICS:

LEGGIH: SOURCE: 1000016

INFORMATICN FOR SEG ID NO: 1:

SEQUENCE SUPPLIES: JOURNE INFORMATION:

TELEFIAX: (202)672-5390

TELEFI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Guery Match. 4.0%: Score 23: DB 1: Length 3207;
Best Local similarity 100.0%: Pred. No. 0.21;
Matches 23: Conservative 0: Mismatches 0: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COURRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington, D.C.
COUNTRY UGA
COUNTRY 105A
ZIP: 20007-5109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ALCAMI: PORAL, Helmul
**ILCAMI: GUENTERT, Ursula
**FLICAMI: GUENTERT, Ursula
**FLICAMI: MENZL, Siefried
**PLICAMI: MENZL, Achim
**PLICAMI: MENZL, Achim
**TLE OF INVENTION: VARIANT CL44 SURFACE PROTEINS, DNA
**TLE OF INVENTION: SEQUENCES COLING THESE, ANTIBODIES AGAINST THESE PROTEINS, PLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
**MBER OF SEQUENCES:-**8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \pplication US/08463322
'6017B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.
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0; Gaps

0

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RESULT 5
US-08-520-678A-22/c
; Sequence 22, Appl:
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ADDRESSE: FOLDY & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Mashington, D.C.
COUNTR: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
OPERATING SYSTEM: PC-POS/NS-5-DS
SOFTWARE: Patentin Release 11.0, Version #1.25
CURRENT ADPLICATION NUMBER: US/08/478,682
RILLMC DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery March 4.0%; Score 3; DB 2; Length 32v7; Best Local Similarity 100.0%; Prod. No. 0.21; Marches 23; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3207 base pairs
TYPE: nucleic acid
STRANDENESS: double
TOPOLOGY: Linear
INMEDIATE SOURCE:
CLOME: D-Meta-1
FRATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: HERRICIG, Peter
APPLICANT: POWTA, Helmut
APPLICANT: CUENTERF, UTSIL
APPLICANT: MATEKN, Slegified
APPLICANT: MEWALL
APPLICANT: MEWALL
APPLICANT: MATEKN, UTSIL
APPLICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  uence 22, Application US/08520678A
PPLICANT: KO!VEDAIOY, Alexander A.
ITLE OF INVENTION: NOVEL 1' TERMINAL SEQUENCE OF HEFATITIS
ITLE OF INVENTION: C VIRUS GENOME AND DIAGNOSTIC AND THEMAFEUTIC USES THEREOF
UMBER OF SEQUENCES: 3
ORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Application US/0847e662
885575
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; TOPOLOGY: linear
; MCLECULE TYPE: DNA (genomic)
US-08-520-678A-22
                                                                                                                                                                                                                            INFORMATION FOR SEY ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGIH: 356 base pairs
IYPE: .uccleic acid
STRANDELNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING LATE:
CLASSIFICATION: 536
ATTONEZ/ACENT INFORMATION:
ATTONEZ/ACENT I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
ZIP: 63105
ZIP: 63105
COMPUTER ELDABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: LIBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-LOS
SOFTMARE: PATENTIAL PC-DOS/MS-LOS
SOFTMARE: PATENTIAL PC-DOS/MS-LOS
APPLICATION DATA:
APPLICATION NUMBER: US/08/520,676A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Howell & Haterkamp, L.C. STREET: 773) Forsyth Blvd., Suite 1400 CITY: St. Louis
STATE: MO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6029-6836
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Ouery Match 36: Soure 22: LB 2: Length 356: Best Local Similarity 100.0% Pred. No. 0.66: Matches 22: Conservative 0: Mismatches 0: Indels
```

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CORRESPONDENCE ADDRESS:

ADDRESSEE: Howell & Haferkamp, L.C.
ADDRESSEE: Howell & Haferkamp, L.C.
STREET: 7733 FORSYth Blvd., Suite 1400
CITY: St. Louis
STATE: MO
COUNTRY: USA
ZIP: 63106
COMPUTER READABLE FLAM:
REDIUM TYPE: Floppy disk
COMPUTER, BAM PC COMPATILLE
COMPUTER: LBM PC COMPATILLE
COMPATIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             s-08-697-126-22/c
Sequence 22, App
REY/AGENT INFORMATION:
E: Henderson, Melodie W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2, Application US/08897126
6297003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OVEL 3' TERMINAL SEQUENCE OF HEPATITIS
VIRUS GENOME AND DIAGNOSTIC AND THERAPEUTIC USES THEREO:
```

6029-6836

udery Match 3.6%; Score 22; DB 1; Lenyth 1731; Best Local Similarity 100.0%; Fred. No. 0.59; Matches 22; Conservative 0; Mismatches 0; Indels

0;

0;

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HOLECULE TYPE: DNA (genomic)
US-08-897-126-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery Match 3.8%; Score 22: DB 4: Length 356; Best Local Similarity 100.0%; Pred. No. 0.66; Matches 22: Conservative 0: Mismatches 0: Indeis
                                                                                                                                                                                                                                                                                                      COUNTH.

21P. 92660
21P. 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPALIBLE
COMPUTER: BAPTICATION PROBER: US/08/203,5058
APPLICATION UNUBER: US/08/203,5058
APPLICATION UNUBER: US/08/203,5058
FILING DATE: FEBRUARY 28, 1994
FILING DATE: FEBRUARY 28, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 37,848
REFERENCE/DOCKET NUMBER: 60:
LECOMMUNICATION INFORMATION:
TELEPHONE: 314-727-6188
TELEFAX: 314-727-6092
                                                                 TYPE: acid
TYPE: double
STRANDEDNESS: double
TOPOLLOGY: linear
OLECULE TYPE: cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TILE OF INVENTION: ISOLATION AND CHARACTERIZATION OF A TILE OF INVENTION: NOVEL CHAPERONE PROTEIN HERE OF SEQUENCES: 26 RESPONDENCE ADDRESS: STREET: 620 NEWDORG CENTER DRIVE, SIXTEENIH FLOOR STREET: NEWPORT BEACH
                                                                                                                                                                                                                                               NAME: KIRKPATRICK, ANITA M.
RECISTRATION NUMBER: 32,617
REFERENCE/DOCKET NUMBER: NII
LECOMMUNICATION INFORMATION:
TELEPHONE: 619-235-8550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NGTH: 356 base pairs
PE: nucleic acid
RANDEDNESS: single
                                                                                                                                                                                                     AX: 619-235-0176
ON FOR SEQ ID NO: 13:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/08203905B
CDS
1..1730
                                                                                                                                                                                                                                                                                      NIH089.001A
```

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TELEPHONE: (617) 542-5070
TELERAX: (617) 542-6506
TELEXX: 200154
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARCIERISTICS:
LENGTH: 2010
ITYEE: nuclets acid
STRANCENESS: double
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IN PS/2 Model 502 or 555A
OPERATING SYSIEM: MS-DOS (Version 5.0)
SOFTWARE: MODELPRICATION DATA:
CURRENT APPLICATION DATA:
APPLICATION HOMER: US/07/864,475A
FILING DATE: 04-06-1952
CLASSIFICATION: 435
PRIOR APPLICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: 13 P P5/2 Model Computer: 13 P ps/2 Model Computer: 15 P ps/2 Model Computer: 18 P5/2 Model 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435
PRIOR APPLICATION DUTA:
APPLICATION NUMBER: 07/681,702
PILING DATE: 05-04-1991
AATIONEY/AGENT INFORMATION:
NAME: PAUL T. Clark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PLICANI: Schipani, Ernestind
TILE OF INVENTION: PARATHYROID HORMONE RECEPTOR
TILE OF INVENTION: AND DNA ENCODING SAME
MBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00786/071002
LECOMMUNICATION INFORMATION:
IELEPHONE: (617) 542-5070
IELEPAGN: (617) 542-8906
IELEFAK: (617) 542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/07864475A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E: Fish & Richardson
225 Franklin Street
```

US-08-468-245A-4 US-08-468-245A-4 SEGUENCE 4, Application US/08468245A PALEAL NO. 5686148 GENERAL INFORMATION:

Query Match 3.8%; Score 22; Lb 1; Length 2010; Best Local Similarity 100.0% Pred. Ho. 0.58; Matches 2; Conservative 0; Mismatches 0; Indels

0; Gaps

ESSEE: Fish & Richardson P.C. ET: 225 Franklin Street

PARATHYROID HURMONE RECEPTOR AND DWA ENCODING SAME

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; NAME/KEY: CDS;
; LOCATION: 28..1807
US-08-468-249A-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 3.8%; So
Best Local Similarity 100.0%; F
Matches 22; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/664,475

FILING DATE: 06-APR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/681,702

FILING DATE: 04-MAY-1951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPACIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: PATENTION DATA:
CURRENT APPLICATION DATA:
                                                                                                                                                                              LICANT: He, Tong-chuan

LICANT: Kinzler, Kenneth

LICANT: Vogelstein, Bet

LIE OF INVENTION: Beta Catenin, TCF-4, and APC Interact to

LE OF INVENTION: Prevent Cancer

LE REFERENCE: 1107.75741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 2010 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 00
LECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LICATION NUMBER: US/08/468,245A
ING DATE: 06-JUN-1995
SSIFICATION: 530

    Application US/09136605A
    6140052

FastSEQ for Windows Version 3.0
                                      PPLICATION NUMBER: US/09/135.605A
ILING DATE: 1998-08-20
PPLICATION NUMBER: 08/821.355
ILING DATE: 1997-03-20
PPLICATION NUMBER: 09/203.667
PPLICATION NUMBER: 09/203.667
ILING DATE: 1998-01-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          34,819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 22; DB
pred. No. 0.5
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           00786/071003
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KESUL. 11
US-08-106-691B-41/c
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: LCCAIION: (2458)...(2462)
US-09-136-605-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 14
LENGIH: 8056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Overy Match 22: Lb 3.8%; Score 22: Lb 3.8%; Score 22: Lb 3.8%; Score 22: Lb 3.8%; Pred. No. 0.53; Best Local Smilarity 100.0%; Pred. No. 0.53; Matches 22; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                     CLASSIPICATION NUMBER APPLICATION NUMBER APPLICATIO
                                                                                                                                                                                       FILING DATE:
AITORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                           WORDER WORD WAR WAS D. WORDER WORD DATA:
APPLICATION NUMBER: US/C
EILING DATE: Ser.
CLASSIFICAT.
NAME: MODACO, Daniel A.
KEGISTRATION NUMBER: 30,480
KEFERENCE/DOCKET NUMBER: 83
LLCCHMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ALDRESSEE: Seidel, Gonda, Lavorgua & Konaco, P.C.
STREET: Two peon Center, Suite 1800
CITY: Philadelphia
STAIE: Pennsylvania
CONTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LE OF INVENTION: ANTISENSE
LE OF INVENTION: OLIGONUCLEUTILES TARGETING COOPERATING ONCOGENES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CANT: Calabretta, Bruno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  41, Application US/08306691B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION
                                                        8321-8
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Ouer; Match 2018 188; Score 22; LB 1; Length 8082; Best Lucal Similarity 100.01; Pred. No. 0.53 Matches 22; Conservative 0; Mismatches 0; Indels

0.

Gaps

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ANTI-SENSE: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human
IMMEDIATE SOURCE:
CLONE: C-Myc Genomic Clone
US-08-187-785-1
                                                                                                                                                                            RESULT 13
PCT-US93-06251-28/c
                                                                                                                                                                                                                                                                                                                                                                        Query Match 3.8%; Score 22; DB Best Local Similarity 100.0%; Pred. No. 0. Hatches 22; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER RADDBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PA:COLIN RALease #1.0, Version #1.25
CURENT APPLICATION LDATA:
APPLICATION NUMBER: US/08/187.785
FILLING_DATE:
                                                                                                                                                                                                                                                                            uence 28, Application PC/TUS9306251
NERAL INFORMATION:
APPLICANT: Wickstrom, Eric and Rife
                                              uPPLICANT: Wickstrom, Eric and Rife, Jason P.
TITLE OF INVENTION: Trivalent Synthesis of Oligonuclectides Containing
TITLE OF INVENTION: Stereospecific Alkylphosphonates and Arylphosphonates
UMBER OF SEQUENCES: 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TORNEY/ACEMT INFORMATION:
MAME: Altman, Dannel E.
REGISTRATION MUHBER: 34,115
REFERENCE/DOCKET NUMBER: NIHOOL-031A
LECOMMUNICATION INFORMATION:
TELEPHONE: 714,760-0404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
LECULE TYPE: DNA (genomic)
POTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 514
IOR APPLICATION NUMBER: US/07/821,415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ICANT: Epstein, Stephen
ICANT: Under, Ellis
ICANT: Speir, Edith
B OF INVENTION: Inhibition of No. 5756476-Iranstrumed Cell
B OF INVENTION: Proliferation Using Anti-Sense Oligonucleotides
ER OF SEQUENCES: 1
ESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PE: nucleic acid
RANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -785-1/c
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. 5756476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SSEE: Knobbe, Martens, Olson, and Bear
N: 620 Newport Center Dr. Sixteenth floor
Newport Beach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        USA
CE ADDRESS:
SCULLY, SCOTT, MURPHY & PRESSER
                                                                                                                                                                                                                                                                                                                                                                                              UB 1; Length Bu82; 0.53;
```

ATTONEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTIATION NUMBER: 25,742
REFERENCE/DOCKET NUMBER: 1113
TELECOMUNICATION INFORMATION:
TELEFHONE: 201-467-5600

1113-1-006

E: 03-MAR-1997 TION: 435

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPACTIVE
OPERATING SYSIEM: PC-005/MS-DGS
SOFTWARE: Patentin Release 1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/6311.566
FILING DATE: 03-MAR-1997

STREET: #11 nachoung
STREET: Floor
CITY: Hackensack
STATE: New Jersey

USA

SPONDENCE ADDRESS:

David A. Jackson, Esq. 1 Hackensack Ave, Continental Plaza, 4th

LE OF INVENTION: FUNCTIONAL DWA CLONE FOR HEPATITIS C LE OF INVENTION: VIRUS (HCV) AND USES THEAEOF SER OF SEQUENCES: 21

INFORMATION:

Rice, Charles et al

Application US/08811566

Query March 3.8%; Score 22; Db 5; Length 8082; Best Local Similarity 100.0%; Pred. No. 0.53; Marches 22; Conservative 0; Mismatches 0; Indels

0; Gaps

```
CCAPULER REDABLE FORM:

MEDIUM TYPE: PICEPY disk
MEDIUM TYPE: PICEPY disk
COMPULER: Haw PC Compatible
CPERATING SYSTEM: PC-LOS/MS-LOS
SOFTWARE: PATENTIAL Release #1.0. Version #1.25
SOFTWARE: PATENTIAL Release #1.0. Version #1.25
CURENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06251
FILING DATE: 19590630
CLASSIFICATION:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SIREEI: 4
                                                                                                                                                                                                                                  NAME: DIGIGIIO, Frank S.
REGISTRATION NUMBER: 31,34(
REFERENCE/DOCKET NUMBER: 85
ECCMMUNICATION INFORMATION:
ELEPHONE: 516-742-4343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 400 Garden City Plaza
arden City
DNA (genomic)
```

RESULT 17 US-08-060-952C-43

Sequence 43, Application US/08060952C Patent No. 5695932 GENERAL INFORMATION: Wed May 1 07:51:20 2002

TELEFAX: 201-343-1684
FORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:

9646 base pairs

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TOPOLOGY: linear
HOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-811-566-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 15
US-08-811-566-5/c
: Sequence 5, Application US/08811566
: Patent No. 6127116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Rice, Charles et al.
TITLE OF INMENTION: PUNCTIONAL DIA CLONE FOR HEBATITIS C
ITTLE OF INVENTION: VIUS (HCV) AND USES THEREOF
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: #11 Hackensack Ave. Continental Plaza, 4th
CITY: Hackensack
CITY: Hackensack
STATE: New Jarsey
COUNTRY: USA
ZIP: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPAN. 201343-1684
INFORMATION FOR SEG ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 12980 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IRM C Compatible
COMPUTER: FLOP C COMPATIBLE
COMPUTER: FLOP C COMPATIBLE
COMPUTER: FLOP COMPATIBLE
COMPUTER: FLOP COMPATIBLE
COM
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Ouery Match 3.8%; Score 22; Db 3; Length 12590;
Best Local Similarity 100.0%; Pred, No 0.51;
Matches 22; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 leic
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            0; indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
            Gaps
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            0
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LENGTH: 157
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-153-0518-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 10
115-08-153-0518-27
Guery Match 3.7%; Score 21; DB 1; Best Local Similarity 100.0%; Fred. No. 1.5; Matches 21; Conservative 6; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMFUTER RADABLE FORM:
MEDIUM TYPE: 31.5° DISHette, 1.44 ML.
MEDIUM TYPE: 51.0° DISHette, 1.44 ML.
MEDIUM TYPE: 51.0° DISHette, 1.46 ML.
MEDIUM TYPE: 51.0° DISHette, 1.5° 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9495 AAAAAGGAAAAAAAAAAAAAAA 9474
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ADDRESSEE: Lyon & Lyo
ADDRESSEE: 153 West Fift
STREET: 63 West Fift
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: 0.S.A.
ZIP: 90071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/COKET NUMBER: 22,327
REFERENCE/COKET NUMBER: 204/1
TELECOMUNICATION INTORNATION:
TELEPHORE: (213) 489-1600
TELEFAX: (213) 555-0440
TELEFAX: (213) 555-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (213) 955-0440
IELEX: 67-3510
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANI. HOMAYDUN VAZİTİ
TITLE OF INVENTICN: TERRAPY AND DIAGNOSIS OF
TITLE OF INVENTICN: CONDITIONS RELATED TO TELSOMERE
TITLE OF INVENTICN: LENGTH AND/OR TELOMERASE ACTIVITY
NUMEER OF SEQUENCES: 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANI Calvin B. Harley
APPLICANI Scott L. Weinrich
APPLICANI Catherine Strahl
APPLICANI Hichael J. Meachern
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SIRATION NUMBER: 3
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ing E. Wright
beth Blackburn
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Fifth Street
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            0; Indels
                                                                                            Length 157;
                  0;
            Gaps
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APPLICANT MICHAELD MEAST
APPLICANT MODIFIES FRIGHT
APPLICANT MODIFIES FRIGHT
APPLICANT MODIFIES FRIGHT
APPLICANT MODIFIES FRIGHT
TITLE OF INVENTIONS HERAFED TO TECOMER LEGITA AND/OR
TITLE OF INVENTIONS HERAFED TO TECOMER LEGITA AND/OR
TITLE OF INVENTIONS HERAFED TO TECOMER LEGITA AND/OR
TITLE OF INVENTIONS HERAFED TO TECOMER LEGITA AND/OR
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TITLE OF INVENTION HERAFED TO TECOMER LEGITA AND/OR
TITLE OF INVENTION HERAFED TO TECOMER LEGITA AND/OR
TITLE AND THE LEGITA MODIFIES TO THE TECOMER LEGITA AND/OR
TITLE AND THE MODIFIES TO THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TECOMER LEGITA AND THE TE
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Query Match 3.7%; Score 21; L6 Best Local Similarity 100.0%; Pred. No. 1.9 Matches 21; Conservative 0; Mismatches

2; Length 157;

Application US/08819867

1: Homayou: Vaziri INVENTION: THERATY AND DIAGNOSIS OF INVENTION: CONDITIONS RELATED 10 INVENTION: TEOLOMERE LENGTH AND/OR

ELOMERASE ACTIVITY

Jerry Shay Woodring E. Wright Tivabeth H. Blackburn

tt L. Weinrich herine M. Straht hael J. Mceachern

NDENCE ADDRESS: SEE: Lyon & Lyon : 633 West Fifth Street : Suite 4700

```
MUMBER J. SCOURNESS S

CCRRESS/CLENCE ACREESS:

ALDRESSEE: Lyon & Lyon
SIREET: 633 Mest Filth Street

STREET: 631 Mest Filth Street

STREET: Los Angeles

STATE: California
COUNTRY U.S.A.

ZIP: 507 Mest Filth Street

COMPUTER REALAST FORM:

MEDIUM TYPE: 3.5* DISKRITE. 1.44 ML
MEDIUM TYPE: 3.5* DISKRITE. 1.45

COMPUTER REALAST FORM:

MEDIUM TYPE: STORAGE

OPERATING SYTEM: 1BM PC. 1065 5.0

SOFTMARE: FASISED Version 1.5

CURRENT AFLICATION NOTHER: US,08/151,477A

APPLICATION NOTHER: US,08/151,477A

FILING DATE: NO. 5800644ember 12, 1553

FRID APPLICATION NOTHER: US,08/151,477A

FILING DATE: NO. 5800644ember 12, 1563

APPLICATION NOTHER: US,08/151,477A

FILING DATE: NO. 5800644ember 12, 1563

APPLICATION NOTHER: US,08/151,477A

FILING DATE: NO. 5800644ember 12, 1563

APPLICATION NOTHER: US,08/151,477A

FILING DATE: NO. 5800644ember 12, 1563

APPLICATION NOTHER: US,08/151,477A

FILING DATE: NO. 5800644ember 12, 1563

APPLICATION NOTHER: US,08/151,477A

FILING DATE: NOTHER: US,08/151,477A

FILING DATE: NOTHER: 20/165

IELECOMUNICATION HYDEMATION:

TELEPINE: 67-1510

IELECOMUNICATION HYDEMATION:

THE BROWN HYDEMATION:

THE BROWN HYDEMATION:

THE BROWN HYDEMATION HYDEMATION:

THE BROWN HYDEMATION:

T
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CITY: Los Angeles STATE: Callfornia COUNTRY: U.S.A. ZIP: 90071-2066

```
NAME: Chambers Danial M. REGISTRATION UNBER 1,561
REFERENCE/DOCKET NUMBER: 224/5
TELEPOMMINCATION INFORMATION: TELEPIONE: (213) 495-5600
TELEFAX: (213) 495-5600
TELEFAX: (213) 955-0440
INFORMATION FOR SEG ID NO: 57:
SEQUENCE CHARGERISTICS:
LENGTH: 156 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 3.7%; Score 21: DB Best Local Similarity 100.0%; Pred. No. 1.: Matches 21: Conservative 0: Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/08/819, 867
FILING DATE: March 11, 1997
CLASSIFICATION: 415
PRIOR APPLICATION UNMBER: 08/153,051
FILING DATE: No. 6007989ember 12, 1993
APPLICATION NUMBER: PRIOR DATE: No. 6007989ember 12, 1993
APPLICATION NUMBER: PRIOR DATE: PRIOR DATE: No. 6007989ember 12, 1993
APPLICATION NUMBER: PRIOR DATE: No. 6007989ember 12, 1993
APPLICATION NUMBER: PRIOR DATE: No. 6007989ember 12, 1993
                                                                                                                                                                                                                                                                                                                                APPLICANT: Reed Steven G.
APPLICANT: Reed Steven G.
APPLICANT: Wang, TongTong
TITLE OF INVESTIGN: OF LUNG CANCER
NUMBER OF SOMEWINDS BE BE
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: WA
COLUMBER OF SOMEWINDS
                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE
COMPUTER: IBM COMPALIBLE
OPERATING SYSTEM: DOS
SOFTWARE: FORSESO for Windows Version 2.0
CURRENT APPLICATION DATA:
PILING DATE: 18 MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5° Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: 1BM Compatible
OPERATING SYSTEM: 1BM P.C. DOS 5.0
SOFTWARE: FESTENG for Mindows 2.0
CURRENT APPLICATION DATA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2, Application US/09040984
6210883
/AGENT INFORMATION:
Maki, David J.
                                                                                                                                                                                                                                                                                                                             USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     224/232
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ADDRESSLE: STERNE RESSLER, GGLDSTEIN & FOX, P.L.L.C. STREET: 1100 NEW YORK AVENUE, SUITE 600 CITY: MASHIMION STATE. DC.

PPLICANI: ELHER, REINHAAD
PPLICANI: EENER, REINHAAD
PPLICANI: EENER, REINHAAD
PPLICANI: EEDERSS, GREGGRY A.
IILE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
UMBER OF SEQUENCES 45
ORRESPONIENCE ADDRESS:

ERAL INFORMATION

YU, GUO-LIANG

STATE: UC
COUNTRY: US
COUNTRY: US
ZIP: 2605-5934

ZIP: 2605-5934

COMPUTER ENDABLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER: LBM PC COMPAILED
COMPUTER: LBM PC COMPAILED
COMPUTER: LBM PC COMPAILED
COMPUTER: LBM PC COMPAILED
COMPAILED
SOFTWAKE: PAUGILIA Release #1.0, Version #1.30

CURRENT AFPLICATION NUMBER: US/08/916,576B
FILLING DATE: 32
FILLING DATE: 32
FILLING DATE: 32
FILLING DATE: 32-AUG-1956
ANTOR-REPLICATION NUMBER: US/08/916,576B
FRICH APPLICATION NUMBER: US/08/916,576B
FRICH APPLICATION NUMBER: US/08/916,576B
FRICH STIEFFE, ENIC K.
REGISTRATION NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
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REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,68B
REFERENCY,COKER NUMBER: 36,60C
REFERENCY NUMBER: 36,68B
REFERENCY NUMBER: 36,

TOPOLOGY: linear MOLECULE IYPE: cDNA FEATURE:

NAME/KEY: mat_peptide NAME/KEY: CDS LOCATION: 88..603

```
INFORMATION FOR SEQ ID NO. 82:
SEQUENCE CHRACETERISTICS:
LENGIH: 217 base pairs
TYPE: numeric acid
STRANDEDRESS: Single
TOPOICAS: linear
                                                                      Obery Match. 3.7%; Score 21; Db 4; Length 217; Best Local Similarity 100.0%; Pred, No. 1.6; Matches 21; Conservative 0; Mismatches 0; Indels
REFERENCE/DOCKET NUMBER: 21
IELECOMMUNICATION INFORMATION:
TELLEPHONE: 206-022-4900
TELLEFAX: 206-282-6031
                                                                                                                                                                                                                                                                                                                                                                                                            31, 394
                                                                                                                                                                                                                                                                                                                                                                                         210121.456
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URSULT 21
US-0B-916-576B-3
Sequence 3, Application US/08916576B
Patent No. 6171816
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LOCATION: 157..603

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; FEATURE:
NAME/KEY: sig_peptide;
LOCATION: 88.156
US-08-916-576B-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-056-105-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 100.0%;
Matches 21; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 3.7%; Score 21; DB Best Local Similarity 100.0%; Pred. No. 1.c Matches 21; Conservative 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LE OF INVENTION: VACCINES WITH ENHANCED INTRACELLULAR
LE OF INVENTION: PROCESSING
? REFERENCE: 233/221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NT APPLICATION NUMBER: US/09/056,105
NT FILING DATE: 1998-04-06
ER APPLICATION NUMBER: 60/043,467
ER FILING DATE: 1997-04-10
                                                                                                                                                                                                                                                                                ICANT: Gerald, William
ITENEMTION: A DIAGNOSTIC TEST FOR TEST FOR THE DESMOPLASTIC
E OF INVENTION: SMALL ROUND CELL TUMOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , Application US/09056105 6287569
                                                                                                                                                                                                                                                                                                                                                                                     , Application US/08437027
5670317
                                                                                                                                                                                                         2: Cooper & Dunham LLP
1185 Avenue of the Americas
                                   PC compatible
M: PC-DOS/MS-DOS
ntin Release #1.0, Version #1.30
US/08/437,027
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 21;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4; Length 1821;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1423;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ů; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                 PPLICATION NUMBER: US/08/891,845
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Query Match 3.7%; Score 21; DB Best Local Similarity 100.0%; Pred. No. 1. Hatches 21; Conservative 0; Mismatches
MOLECULE TYPE: CDNA to mRNA
1-437-027-18
                                                                                                                                                                                                                                                          46416/JPW/CCA
                                                   Indels 0;
                                                  Gaps
```

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Application US/08891845
chaefer, Gabriele M.
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ZIP: 94080

COMPUTER REALABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: THE PC competible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WINDRIN (Genentech)
CURRENT APPLICATION DATA: DDRESSEE: Genentech, Inc. TREET: 460 Point San Bruno Blyd ITY: South San Francisco TATE: California Gamma-Heregulio

CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: 60/021640
FILING DATE: 07/12/56
ATTORNEY/AGENT INFORMATION:
NAME: Lee, Wendy M.
REGISTRATION NUMBER: 40.37B
REFERENCY/CACKET NUMBER: P1043
TELECOMMUNICATION INFORMATION:

Query Match

3.7%; Score 21; DB 3; Length 3111;

Best Local Similarity 100.0%: Pred. No. 1. Matches 21; Conservative 0; Mismatches

```
TOPOLOGY: linear; MOLECULE TYPE: other nucleic acid US-08-619-5428-30
                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 3.5%;
Best Local Similarity 100.0%;
Matches 20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/615,5429
FILLING DATE: June 21, 1996
CLASSIFICATION: 435
ATTORNEY/ACENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 42840-A-PCT-US
TELEPOMBUNICATION INFORMATION:
TELEPOMBUNICATION 18FORMATION:
TELEPOMBUNICATION 18FORMATION:
TELEPOMBUNICATION 18FORMATION:
TELEPOMBUNICATION 18FORMATION:
TELEPOMBUNICATION 18FORMATION:
TELEPOMBUNICATION 18FORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SED ID NO: 30: SEQUENCE CHARACTERISTICS: LENGTH: 339 base pairs TYPE: nucleic acid STRANDEDNESS; single TOPOLOGY: linear TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.3U
CUBRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                      uence 30, Application US/08619542b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Cooper's Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PLICANT: OF NEW YORK

RETHOD FOR CONSTRUCTION OF WORMALIZED

FILE OF INVENTION: CDNA LIBRARIES
ANT: Endege, Wilson O.
ANT: Steinman, Kathleen E.
ANT: Astle, Jon H.
ANT: Burgess, Christopher C.
ANT: Bushnell, Steven E.
ANT: Catino, Theodore J.
                                                                                                                                                                                                  application US/09328111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the Trustees of Columbia University in the City in the City New York
                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                          Score 20; D6 2; Length 339;
Pred. No. 4.d;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                             0;
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; ORGANISM: Homo sapiens
US-09-328-111-25
                                                                                                                                                     TILLE OF INVENTION: MOVEL HUMAN GENES AND GENE EXPRESSION TILLE OF INVENTION: PRODUCTS FILE REFERENCE: CCD-27 (US) CONNENT APPLICATION NUMBER: US/95/320,111 CURRENT FILING DATE: 1559-06-06 BUJ EARLIER APPLICATION NUMBER: US 60/U00,BUJ EARLIER FILING DATE: 1598-06-10 NUMBER OF SEQ 10 NOS: 850 SOFTWARE: FastSEQ for Windows Version 3.0
```

puery Match 3.5%; Score 20; DB 4; Length 413; Best Local Similarity 100.0%; Pred. No. 4.8; Matches 20; Conservative 0; Mismatches 0; Indels

RESULT 27 US-08-036-555B-133

Sequence 133, Application US/06036555B
PARENT NO. 5530109
CENERAL INFORMATION:
APPLICANT: Goodeari, Andrew Strowbant, Faul;
APPLICANT: Chen, Maio Su; Hiles, Jan
TILLE OF INVENTION: Glial Hitogenic Factors, Their
TILLE OF INVENTION: Glial Hitogenic Factors, Their
TILLE OF INVENTION: Freparation and Use
NUMBER OF SEQUENCES: 184
COLDETERONEUM ENTERS.

ADDRESSEE: Felfe & Lynch
STRET: 605 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM: 5.25 Inch, 350 kb storage

COMPUER: IBM
COMPUER: IBM
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COMPU ATE: DATA:
ICATION DATA:
(TON NUMBER: U.K. 91 07566.3
DATE: 10-APRIL-1991
AGENI INFORMATION:

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; STANNEDNESS: single
; TOPOLOGY: linear
US-08-036-5558-133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Overy Match 3.5%; Score 20; DB 1; Length 744;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/469,569
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION UNDER: 08/036,555
FILING DATE: 24-MAR-1993
APPLICATION NUMBER: 07/665,173
APPLICATION NUMBER: 07/665,173
FILING DATE: 23-COT-1992
PRIOR APPLICATION UNDER: 07/940,389
FILING DATE: 03-SEP-1992
BRICK APPLICATION UNDER: 07/940,389
                                                                                                                                                                                                                         PILING DATE: 03-SEP-1992
PRIOR APPLICATION NUMBER: 07/910, 385
PRIOR APPLICATION DATA
APPLICATION NUMBER: 07/907,138
FILING DATE: 30-JUN-1992
RIOR APPLICATION FATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch, 160 kb storaye
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM
OPERATING SYSTEM: PC:DOS
SOFTWARE: Wordperioct
DRRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRICANT: Goodearl, Andrew; Stroobant, Paul;
PRICANT: Minghetti, Luisa; Materfield, Michael; Marchioni, Mark;
PRICANT: Chen, Maio Su; Hiles, La
TILE OF INVENTION: Gital Mitogenic Factors, Their
TILE OF INVENTION: Figuration and Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3, Application US/08469569
5606032
TION NUMBER: 34,266
E/DOCKET NUMBER: LUD 5250.4
ICATION INFORMATION:
                                                Christine H. NUMBER: 34
                                                                                                                                                                            JMBER: 07/863,703
03-APRIL-1992
                                                                                                               BER: U.K. 91 07566.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ial Mitogenic Factors, Their sparation and Use
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Cuery Match 3.5%, Score 20; Lb 1; Length 744; Best Local Similarity 100.0%, Fred. Mc. 4.6; Matches 20; Conservative 0; Mismatches 0; Indels
eic acid
                                                             0.
                                                             Gaps
```

-249-322A-133 PHICANI: Gooderl, Andrew; StrocLant, Faul; FILICANI: Minghetti, Luisa; Materfielg, Michael; Marchioni, Mark; FLICANI: Chen, Maio Su; Hiles, Jan ILE OF INVENTION: Gilal Mitogenic Factors, Their ILE OF INVENTION: Preparation and Use 33, Application US/08249322A 5716930

ADDRESSEE: Felfe & Lynch
SIREET: 805 Third Avenue
CITY: New York City
STATE: New York City
COUNITY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

COMPUTER: 1BM

OPERATINA SYSTEM: PC-DOS

SOFTHARE: Wordperiect

CURENT APPLICATION DATA:

APPLICATION NUMBER: US/08/249,322A

FILING DATE: 26-MAY-1994

OFFICIAL OFFICE AND STATEMENT OF A APRICATION. A APRICATION. A DESCRIPTION. A D

CLLSSEP CHAILON UNMERS: 08/036.555

PRIOR APPLICATION UNMERS: 08/036.555

PRIOR APPLICATION UNMERS: 07/65,173

PRIOR APPLICATION UNMERS: 07/65,173

PRIOR APPLICATION UNMERS: 07/65,173

PRIOR APPLICATION UNMERS: 07/940,385

PRILING DATE: 03.5EP-952

PRIOR APPLICATION UNMERS: 07/9707,136

PRILING DATE: 03.5EP-952

PRIOR APPLICATION UNMERS: 07/9707,136

PRILING DATE: 03.5EP-952

PRIOR APPLICATION UNMERS: 07/9707,136

PRILING DATE: 03.5EP-1952

PRIOR APPLICATION UNMERS: 07/663,703

APPLICATION UNMERS: 07/663,703

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PRIOR APPLICATION UNMERS: 07/663,703

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APPLICATION UNMERS: 07/663,703

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APPLICATION UNMERS: 07/663,703

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STRANDEDNESS: single
TOPOLOGY: linear
US-08-249-322A-133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 3.5%;
Best Local Similarity 100.0%;
Matches 20; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: DOS
SOFTWARE: FASISEQ for Mindows Version 2.0
SOFTWARE: FASISEQ for Mindows Version 2.0
CURRENT APPLICATION NUMBER: US/08/469,526A
FILING DATE: 06 June 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 744
                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Bicker-Brady, Kristina
REGISTRATION NUMBER: 35,109
REFERENCE/DOCKET NUMBER: 0458
TELECOMPUNICATION INFORMATION:
TELEPHONE: 617-428-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 23-0CT-1992
APPLICATION NUMBER: 07/963,185
FILING DATE: 03-SEP-1992
APPLICATION NUMBER: 07/90,385
FILING DATE: 03-SEP-1992
APPLICATION NUMBER: 07/907,138
FILING DATE: 03-JUN-1992
APPLICATION NUMBER: 07/863,703
APPLICATION NUMBER: 01/863,703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Disket
                                                                                                                                                                                                                                                                                                                                                                                                                  ICATION NUMBER: 08/0
NG DATE: 24-MAR-1993
ICATION NUMBER: 07/9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Boston
E: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3, Application US/08169526A
5792819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               176 Federal Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                              08/036,555
                                                                                                                                                                                                                                        7/863,703
-1992
-K. 91 07566.3
                                                                                                                                 04585/00200A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB i; Length 744.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query March 3.5%; St
Best Local Similarity 100.0%; I
Matches 20; Conservative. 0;
                                                                                                                                                                                                                                                         PRIOR APPLICATION UNDEER: 08/470,335
APPLICATION UNDEER: 08/470,335
FILING DATE: 08-UN-1955
FILING DATE: 08-UN-1955
FILING DATE: 03-WAR-1953
FRIOR APPLICATION UNDEER: 09/96,555
FILING DATE: 03-WAR-1953
FRIOR APPLICATION NUMBER: 07/965,173
FILING DATE: 23-CCT-1952
PRIOR APPLICATION UNDEER: 07/940,385
FILING DATE: 03-SEP-1952
FILING DATE: 03-SEP-1952
FILING DATE: 03-SEP-1952
FILING DATE: 03-SEP-1952
FILING DATE: 30-JUN-1952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCMPUTER READABLE FORM:

REDIUM IVEE: 3.5° Diskette, 1.44 MD
COMPUTER: IAM COmpatible Pentium
COMPUTER: IAM COmpatible Pentium
COMPUTER: MACCOMPATION
COMMENT APPLICATION INTER: (Version 7.0)
CAMENTA APPLICATION INMERS: 05/05/734,591A
APPLICATION INMERS: 05/05/734,591A
APPLICATION INMERS: 556
                                                                                                   FILING DATE: 30-JUN-1952
FRICA REPLICATION DUBLE: 07/863,703
FILING DATE: 03-AFK-1952
FRICA REPLICATION NUMBER: 1952
FRICA REPLICATION NUMBER: UK 91 07566.3
FILING DATE: 10-AFK-1961
FILING DATE: 10-AFK-1961
AFFILING DATE: 10-AFK-1961
AFFILING DATE: 10-AFK-1961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATE: Massachusetts
UNTRY: U.S.A.
P: 02110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TI: Strocbant, Paul
TI: Winghetti, Luisa
TI: Waterfield, Michael
TI: Hiles, Ian
TI: Harchoni, Hark
TI: Chen, Mario
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/08734551A
54220
ieker-Brady, Kristina
TION NUMBER: 35,109
E/DCCKET NUMBER: 04565/Gu200P
ICATION INFORMATION:
E: (617) 428-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E: Clark & Elbing LLP
176 Federal Street
```

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US-08-469-526A-133
0; Indels
             Length 744;
0
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OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR OF INVENTION: PREPARATION AND USE R OF SEQUENCES: 187

Wed May 1 07:51:20 2002

SEQUENCE CHARACTERISTICS:

133:

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: TYPE: nucleic acid

: STRANDEDNESS: single

: TOPOLOGY: linear

US-08-734-591A-133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Usery Match 3.5%; score 20; DB 2; Length 744;
Best Local Similarity 100.0%; Pred, No. 4.6;
Natches 20; Conservative 0; Hismatches 0; Indels
                                                                                        FORMATION FOR SEQ ID NO: 133:
SEQUENCE CHARACTERISTICS:
LENGTH: 744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 04585/017004
LECOMMUNICATION INFORMATION:
*ELEPAX: 200154
MATION FOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
RRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LICANT: GEYRNG, David I.; Marchionni, Mark;
LICANT: McBurney, Robert N.
LE OF INVENTION: INHIBHIORS OF CELL PROLIFERATION,
LE OF INVENTION: THEIR PREPARATION AND USE
BER OF SEQUENCES: 184
RESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                   ING DATE:

SSIFICATION: 435
APPLICATION UNDER: 08/011,356
ING DATE: 29-JAN-1953
APPLICATION NUMBER: 07/984,085
ING DATE: 01-DEC-1952
APPLICATION NUMBER: 07/981,085
ING DATE: 01-DEC-1952
A APPLICATION DATA:
PLICATION NUMBER: 07/951,747
LING DATE: 05-SEP-1952
PLICATION NUMBER: 07/9731,747
LING DATE: 10-AUG-1952
ING DATE: 10-AUG-1952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TE: Massachusetts
; 0211-2804
TER READABLE FORM:
ION TYPE: Diskette, 5.25 i.ch, 360 kb storage
POTER: IBM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   33. Application US/084696o0
5876973
                         nucleic acid
EDNESS: double
GY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ON NUMBER: US/08/469,660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               obery Match 3 3.5%; Score 20; DB 3; Length 744.
Best Local Similarity 100.0%; Pred, Mc. 4.6;
Matches 20; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            £-470-335-133
CRGANISM: Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CANI: HILES, IAN
OF INVENTION: GLIAL MITGGENIC FACTORS, THEIR
OF INVENTION: PREPARATION AND USE
REFERENCE: 04585/00200B
```

Query Match 3.5%; Score 20; DB 2; Length 744; Best Local Similarity 100.0%; Pred. No. 4.6;

NAME/KEY: CDS LOCATION: (8)...(625) JS-08-470-335-133

PastSEQ for Windows Version 4.0

ON NUMBER: 08/036,555 IE: 1993-03-24 жыев: US/08/470,335F 995-06-06 мвгс. ^^ Application US/08470335F

0; Gaps

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; FEATURE:
; NAME/KEY: CDS
; LOCATION: (8)...(625)
US-08-341-018-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 20: Conservative
                                                                                                                                                                                                                                                                                                                                                     08-341-016-1
equence 1, Application US/08341016A
atent No. 6087323
                                                                                                                                                                                                                                                                                                                                                                                                                                                       CRGANISM: Bos taurus
                                                                                                                                                                                           LICANT: MCBUTGEY, ROLERT N.
LE OF INVENTION: USE OF NEUREGULINS AS MODULATORS OF
LE OF INVENTION: CELLULAR COMMUNICATION
E REFERENCE: 04565/041001
                                                                                                                                                                                                                                    NI: Gyrnne, Davio I.
NI: Mhanthappa, Nayesh K.
NI: Marchionin, Mark A.
NI: Berningham-McDonogh, Olivia
NNI: Goldin, Stanley M.
NNI: Goldin, Stanley M.
                                                                                                                                                          ICATION NUMBER: US/08/341,018A
NG DATE: 1994-11-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mishatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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Query Match Best Local

al Similarity 100.0%; 20; Conservative (

pplication US/08735021B

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CURRENT PILLING DATE: 1996-10-22

CURRENT PILLING DATE: 1996-10-22

EARLIER APPLICATION MUMBER: 08/472 065

EARLIER APPLICATION MUMBER: 08/036-555

EARLIER APPLICATION MUMBER: 07/865,173

EARLIER APPLICATION MUMBER: 07/865,173

EARLIER APPLICATION MUMBER: 07/840,389

EARLIER APPLICATION MUMBER: 07/907,118

EARLIER APPLICATION MUMBER: 07/907,118

EARLIER APPLICATION MUMBER: 07/907,118

EARLIER APPLICATION MUMBER: 07/907,118

EARLIER APPLICATION MUMBER: 07/907,03

EARLIER APPLICATION MUMBER: 07/907,03

EARLIER APPLICATION MUMBER: 07/903,703

EARLIER APPLICATION 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; NAME/KEY: CDS
; LOCATION: (8)...(625)
US-08-735-021-133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 3.5%;
Best Local Similarity 100.0%;
Matches 20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR LE OF INVENTION: PREPARATION AND USE REFERENCE: 04585/00200L
      N Stroobant, Paul
Hinghetti, Luisa
Waterfield, Michael
Marchionni, Hark
Chen, Mario
Hiles, Ian
                                                                                                                                                                                                                                                                                                                                                                                                                  Application US/08734664A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US/08/735,0216
0-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 4; Length 744;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0:
WESULT 37
US-08-470-339-133
Sequence 133, Application US/08470339C
Patent No. 6232266
GENERAL INFORMATION
GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 3.5%; Score 20; DB Best Local Similarity 100.0%; Pred. No. 4.6 Matches 20; Conservative 0; Mismatches
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PPLICANT: GOODEARL, ANDREW PPLICANI: STROOBANT, PAUL

Length 744;

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DB 3; Length 744; 4.6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0:
INFORMATION FOR SEQ ID NO: 133:
SEQUENCE CHARGEERISTICS:
LENGIH: 714
TYPE: nucleic scid
STRANDEDESS: single
TOPOLOGY: linear
US-08-734-664A-133
                                                                                                                                                                                                                                                    CLASSIFICATION: $36

PRICATION INDEER: 06/249,322

FILING DATE: 26 MAY 1194

PRIOR APPLICATION NUMBER: 06/036,555

FILING DATE: 26 MAY 1194

PRIOR APPLICATION NUMBER: 06/036,555

FILING DATE: 21 MAK: 193

PRIOR APPLICATION NUMBER: 07/965,173

PRIOR APPLICATION NUMBER: 07/965,173

PRIOR APPLICATION NUMBER: 07/97,138

PRIOR APPLICATION NUMBER: 07/97,138

PRIOR APPLICATION NUMBER: 07/97,138

FILING DATE: 30 JUN-1952

PRIOR APPLICATION NUMBER: 07/963,703

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5° Diskette, 1.44 MD
COMPUTER: 1BM COMPATIBLE PERLIUM
OPERATING SYSTEM: WINDOWS95
SOFTMARE: PastGey Version 2.0
CUREEN APPLICATION DATA:
APPLICATION NUMBER: US/06/734,664A
FILING DATE: 22 CGT-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Clark & Elbing LLP
STREET: 176 Federal Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ITILE OF INVENTION: GLIAL MITGGENIC FACIORS, THEIR
TITLE OF INVENTION: PREPARATION AND USE
NUMBER OF SEÇUENCES: 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 176 Federal s
CITY: Boston
STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IUMBER: US/08/734,664A
22-OCT-1996
N. For
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; NAME/KEY: CDS
; LOCATION: (8)...(625)
US-08-470-339-133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 3.5%;
Best Local Similarity 100.0%;
Matches 20; Conservative ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/08/470,315C
CURRENT FILING DATE: 195-06-06
EARLIER APPLICATION NUMBER: 03/03.555
EARLIER FILING DATE: 1993-03-24
EARLIER APPLICATION NUMBER: 07/540,385
EARLIER FILING DATE: 1992-05-30
EARLIER FILING DATE: 1992-05-30
EARLIER FILING DATE: 1992-06-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LE OF INVENTION: GLIAL MITOSENIC FACTORS, THEIR LE OF INVENTION: REPARATION AND USE REFERENCE: 04585/00208
                                                                                                                                                                                                              OPERATING SYSTEM: PC-DOS
OPERATING SYSTEM: PC-DOS
SOPTMARE: MOrdperfect
RERENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/05083C
FILING DATE: 06-MAY-94
                                                                                                                                                                                                                                                                                                                                                                     MPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360
MEDIUM TYPE: kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: Massachusetts
ZIP: 02110-2804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ANISM: Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LICANT: Robert Sklar, Mark Marchionni, 
LLICANT: David I. Gaynne
'LE OF INVENTION: METHODS FOR ALTERING - LE OF INVENTION: MUSCLE CONDITION
USER OF SEQUENCES: 185
(RESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : Fish & Richardson
225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application PC/TUS9405083C
N NUMBER: 08/059,022
E: 06-may-93
NT INFORMATION:
                                                                                                                                                              ON DATA:
                                                                                                       MBER: 08/209,204
08-MAR-94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 744;
```

APPLICATION NUMBER: 08/036,555
FILING DATE: 24-MRR 1953
FRIGH APPLICATION NUMBER: 07/965,173
FRIGH APPLICATION NUMBER: 07/965,173
FILING DATE: 23-CCT-1952
FRIGH APPLICATION NUMBER: 07/940,369
FILING DATE: 03-SEP-1952
FILING DATE: 03-SEP-1952
FRICH APPLICATION NUMBER: 07/940,369
FILING DATE: 03-SEP-1952
FRICH APPLICATION NUMBER: 07/940,369
FILING DATE: 03-SEP-1952
FRICH APPLICATION NUMBER: 07/940,369
FILING DATE: 30-DUN-1952
FRICH APPLICATION NUMBER: 07/940,369

100 N. 50-300 - ...
DATE: 30-300 - ...
ATION NUMBER: 07/863,763
3 DATE: 03-APRIL-1592
FFLICATION NUMBER: U.K. 51 07566.3
ICATION NUMBER: U.K. 51 07566.3

FILING DATE: 25-MAY-1995

PHIGH APPLICATION DATA:
APPLICATION NUMBER: 08/249,322

FILING DATE: 26-MAY-1994

CLASSIFICATION:

CT/US95/06846A

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Odery Match 3.5%; So
Best Local Similarity 100.0%; I
Matches 20; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                  US$5-06846A-133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM
CFEKATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CUKRON APPLICATION DATA:
APPLICATION NUMBER: PCT/U
                                                                                                                                                                                                                                                                                                                                                              ence 133, Application PC/TUS9506846A
ERAL INFORMATION:
                                                                                MPUTER KEADABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
                                                                                                                                                           DRESSEE: Felfe & Lynch
REET: 805 Third Avenue
IY: New York City
AIE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              single
linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R SEQ ID NO: 129
RACIEKISTICS:
                                                                                                                                                                                                                                                                                       dearl, Andrew David; Stroobent, Faul;
ghetti, Luisa; Materfield, Michael; Marchioni, Mark;
n. Maio Su; Hiles, Ian
ION: Glial Mitogenic Factors, Their
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30, 162
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UD.5250.5

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IRRONANTION TOWN SEED TO SUCH THE STREAM PROPERTY OF THE SECURATE CONSTRUCTION THE STRANDENESS: SINJLE TYPE: DUCLET CILL TYPE: DUCLET CILL TYPE: DUCLET CILL TYPE: DUCLET CILL TYPE: DUA SOCIETA SOCIE
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-162-247-1

, Application US/08182247 5830686

CURFULER READABLE FORM:

MEDIUM TYPE: Floppy disk
CAMPULER: IBM PC Compatible
CFERATING SYSTEM: PC-005/MS-565
SOFTWARE: PSTEM: Release 11.0, Version #1.25
CURFENT APPLICATION DATA:
CURFENT APPLICATION DATA:

APPLICATION NUMBER: US/08/182,247 FILING DATE: 13-JAN-1994 FLASSIFICATION: 536

16434-1

TILE OF INVENTION: IISUE-SECTIFIC ENHANCER ACTIVE IN
IIILES OF INVENTION: PROSTATE
NUMBER OF SEQUENCES: 1
COPHESPONENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew
STREIT: 375 Lytton Avenue
CITY: Falo Alto
SIATE: California
CONTEN: US

```
C.MPUTER: IBM PC COMPATINE

PERATING SYSTEM: PC-DOS/MS-LOS

SITHARE PRICATION DATA:

APPLICATION UNMER: US/06/380,916

ELIING DATE: 12-JAN-1995

LASSITICATION MUNEER: US 08/182,247

APPLICATION NUMBER: US 08/182,247

APPLICATI
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DNA (genomic)

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TREADTON TO 141

TREET 706141

TREATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1192 base pairs
TYPE: nucleic actil
TYPE: nucleic actil
TYPE: nucleic actil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0S-08-721-650-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   overy Match 3.5%; score 20; DB 2; Length 1192; Best Local Similarity 100.0%; Pred: No. 4.4; Matches 20; Conservative 0; Mismatches 0; Indels
                                                                        Ouery Match 3.5%; So Best Local Similarity 100.0%; F Matches 20; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 13-JAM-1994
ATTORNEY/AGENT INFORMATION:
NAME: CALBERINE, POLIZZI H
REGISTRATION NUMBER: 40,130
REFERENCE/DOCKET NUMBER: 310
TELECOMMUNICATION INFORMATION:
PRICANT: Henderson, Daniel R.
TIE OF INVENTION: TISSUE-SPECIFIC ENHANCER ACTIVE
TIE OF INVENTION: IN PROSTATE
MHER OF SEQUENCES: 22
NRESPONDENCE ADDRESS:
                                                                                                                                                                             TOPOLOGY: linear
DLECULE TYPE: Genomic DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESS:
ADDRESS:
MORRISON & FOERSTER
REET: 755 PAGE MILL ROAD
Y: Palo Alto
YE: CA
TPV CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NARE: PastSEQ for Windows Version 2.0
APPLICATION DATA:
ATION NUMBER: US/09/77*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          , Application US/08721690 6057299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ON NUMBER: US 08/380, 916
TE: 30-JAN-1995
ON NUMBER: US 08/182, 247
                                                                                                                                                                                                                                                                                                                        415-813-56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-SEP-1996
N: 514
                                                                                                                                                                                                                                                                                                                                            5600
                                                                                                                                                                                                                                                                                                                                                                                34802-20001.21
                                                                        0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                          Query Match 3.5%; Score 20; DB 3; Length 1192;
Best Local Similarity 160.0%; Pred. No. 4.4;
Matches 20; Conservative 0; Mismatches 0; Indeis
```

Indels 0;

phlication US/09032523

Jennifer L

Incyte Pharmaceuticals, Inc.

HUMAN PROTETNASE MOLECULES

```
; MOLECULE TYPE: Genomic DNA US-08-891-581-2
                                                                TELEFAX: 415-494-0/72
TELEFAX: 705141
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
LENGTH: 1192 base pairs
TYPE: nucleic acid
                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 34802-20001.22
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-813-5600
TELEFAX: 415-494-0792
TELEFAX: 415-413-494-0792
                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IEM COMPACIBLE

CPERATING SYSTEM: DOS

SOFIMANE: FASTŠEO FOR MINDOWS VERSION 2.0

APPLICATION NUMBER: US/08/891,561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/360,915
FILING DATE: 30-JAN-1995
APPLICATION NUMBER: US 08/362,247
FILING DATE: 13-JAN-1994
                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Catherine, Polizzi M
REGISTHATION NUMBER: 40,130
                                        TOPOLOGY: 1 in
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TITY: PAID ALLO
TATE: CA
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5136792
                                     ss: single
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2NTION: TISSUE SPECIFIC ENHANCER ACTIVE
2NTION: IN PROSTATE
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TIP: 94304

OHPUTER RENDABLE FORM: ZEE

MEDIUN TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
URRENT APPLICATION NATA:
RPFLICATION NUMBER: US/09/032.523
                                                                                                                                                                                                                                                                                                                                                       3174 Porter Drive
PE-0479 US
```

Search completed: April 30, 2002, 10:54:09 Job time: 10918 sec

Ouery Match 3.5%; Score 20; DB 4; Length 1802; Best Local Similarity 100.0%, Pred Mo. 4.3; Matches 20; Conservative 0; Mismatches 0; Indels

0; Indels 0; Gaps

Page 7

Human; secreted protein; rusion protein; gene therapy; protein therapy; diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemis; developmental abnormality; foetal deficiency; blood; allergy; renal; ds; immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma; inflammation; ischaemic shock; Alzheimer's disease; restenosis; AlDS; cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus; osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion; Human secreted protein gene lo clone HMABH07. 28-JAN-1999 (first entry) AAV34234; AAV34234 standard; DNA; 1053 8

J7-MAR-1997: J7-MAR-1997: C7-MAR-1997: J7-MAR-1997: 23- MAY 1597 24- MAY 1597 25- MAY 1597 27- MAY 1597 27- MAY 1597 28- 1-SEP-1998 C-MAR-1990: \$708.004052 \$708.0040162 \$708.0040163 \$708.00403 \$708.00403 \$708.00403 \$708.00403 \$708.00403 \$708.00403 \$708.0043 \$7 58WC-0504452

10 COC 000

endocrine: metabolism: regulation: malabsorption: gastritis; neoplasm.

W. 9639446-A2 mand sapiets

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us-09-248
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constitutions can be displaced by determining the presence of mutations in Conditions can be displaced by determining the protein for protein spiritus of the protein spiritus conditions and their fragments (multiple conditions of the protein spiritus of the human protein only and their fragments (multiple conditions e.g. ANV34151 for increasing the stability of the fused the human protein only are stability of the fused the human protein only are stability of the fused the first fragments (multiple conditions e.g. by protein or gene their fragments (multiple conditions e.g. by protein or gene therapy. Also, pathological conditions can be disposed by determining the amount of the new polymucleotides. Specific uses are described for each of the 70 cplymacleotides, based on which its sues they are most highly expressed in xx (see ANV34154 for described uses).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated human genes and the secreted polypeptides they encode useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22 - AUG - 1997;
22 - AUG - 1997;
22 - AUG - 1997;
22 - AUG - 1997;
22 - AUG - 1997;
22 - AUG - 1997;
05 - SEP - 1997;
05 - SEP - 1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 234; 447pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI: 1998-609887/51.
P-PSDB; AAW75137.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bedharik DP, Brewer LA, Carter KC, Duan R, Ebner R, Endress GA;
Feng P, Pertra LM, Fischer CL, Grews KA, Greene JH, Hu JS;
KYAW H, Lafleur DW, Li Y, HOOTE PA, WI J, Olsen HS, Rosen CA;
Ruben SM, Shi Y, Soppet DR, Young PE, Yu GL, Zeng Z;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (HUMA-) HUMAN GENOME SCI INC
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Ouery Match
3.71; Score 22; DB 19; Length 1053;
Best Local Similarity 100.04; Pred. No. 14;
Matches 22; Conservative 0; Mismatches 0; Indels (

0; Indels 0; Gaps

Sequence 1053 BP; 248 A; 298 C; 295 G; 209 T; 3 other:

GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd

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Title:
Perfect score:
Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OM nucleic - nucleic search, using sw model
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Word size :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. Mo. is the number of results predicted by chance to have a score greater than or equal to the score of the :-sult being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Issued_Patents_NA:*

1: /cgn2_6/ptcodata/1/ina/5A_CCMB_seq:*

2: /cgn2_6/ptcodata/1/ina/5B_CCMB_seq:*

3: /cgn2_6/ptcodata/1/ina/6B_CCMB_seq:*

5: /cgn2_6/ptcodata/1/ina/pcTius_CCMB_seq:*

5: /cgn2_6/ptcodata/1/ina/pcTius_CCMB_seq:*

6: /cgn2_6/ptcodata/1/ina/pcTius_CCMB_seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               351203 seqs, 113238999 residues
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(vithout alignments)
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      1 US-08-832-83-4
2 US-08-832-87-1
4 US-09-385-982-27-5
4 US-09-385-982-27-5
3 US-08-870-123-10
3 US-09-128-155-17
2 US-08-858-767-22
2 US-08-858-767-22
2 US-08-863-028-22
2 US-08-863-028-22
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4 US-08-721-488-4
5 US-08-721-683-11
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sequence 19, Appl
sequence 275, Appl
sequence 10, Appl
sequence 11, Appl
sequence 17, Appl
sequence 17, Appl
sequence 21, Appl
sequence 22, Appl
sequence 23, Appl
sequence 24, Appl
sequence 25, Appl
sequence 26, Appl
sequence 17, Appl
sequence 18, Appl
sequence 18, Appl
sequence 18, Appl
sequence 29, Appl
sequence 3, Appl
sequence 4, Appl
sequence 65, Appl
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sequence 17, Appl
sequence 18, Appl
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Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	o character
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Ouery Match 2.3%; Score 21; DB 1; Length 4576; Best Local Similarity 100.0%; Pred. No. 1.5; Matches 21; Conservative 0; Mismatches 0; Indels

0; Gaps

0

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HOLDCULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      opery Match 2,3%; Score 21; DB 2: Length 4576; Best Loop 15; Best Loop 15; Matches 0; Indels Matches 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -832-877-49/c
                                                                           URRENT APPLICATION NUMBER: U5/09/385, 582
URRENT FILING DATE: 1999-08-30
URRENT FILING DATE: 1999-08-30
ARLIER APPLICATION UNMER: 09/3724,111
ARLIER APPLICATION UNMER: 09/3744,113
ARLIER APPLICATION UNMER: 00/117,393
ARLIER PILING DATE: 1999-01-27
                                                                                                                                                                                               RERAL INFORMATION: MILSON O., ET AL.
ITLE OF INVENTION: PRODUCTS: II
ILE REFERENCE: CCDNA-260X
                                                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: Floppy disk
COMPUTER: IEM COMPUTER: OCCOMPUTER: OCCOMPUTER: PC-OOS/MS-DOS
SOFTWARE: Parentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESPONDENCE ADDRESS:

DDRESSEE: SEIDEL, GONDA, LAVORGNA & HONACO, P.C.
TREET: Suite 1800 Two Penn Center Plaza
TTY: Philadelphia
TATE: PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LE OF INVENTION: METHODS FOR THE DIAGNOSIS AND PROGNOSIS OF US OF INVENTION: CANCER US OF SEQUENCES: 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRATION NUMBER: 30,480
RENCE/DOCKET NUMBER: 83
astSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Application US/08832877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              USA
                                                                                                                                                                                                                                                                                                                  Application US/09385982
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ordano, Antonio
                          TION NUMBER: 60/117,393

NATE: 1999-01-27

ION NUMBER: 60/098,639

NTE: 1998-08-31

NOS: 544
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0: Indels 0:
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ORGANISM: Hamb sapiens
: FEATURE:
: NAME/KEY: m.18c_feature
: LOCATION: (1)...(588)
: OTHER INVOCAMATION: n * A.T.C or G
us.05-385-582-275
                                                      Query Match 2.2%;
Best Local Similarity 100.0%;
Matches 26; Conservative
INPE: DAR
                                                                     Score 20: DB 4: Length 588; pred. No. 4.6;
                                                           Mismatches
```

-870-126-10/c |uence 10, Application US/08670126 | 10:8702 INVENTION: Murine and Human Box-Dependent InvENTION: MYC-Interacting Protein (Bin1) and Uses Therefor

ESPONEENCE ADDRESS: DRESSEE, Howson and Howson INEET: Spring House Corporate Catt, P O Box 457 ITY: Spring House KAIE: Pennsylvania

COMPUTER READABLE FORM:
MEDIUM INFE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-005/MS-LOS
SOFTWARE: PACCALIN Release #1.0, Version #1.30
SUFTWARE: PACCALIN Release #1.0, Version #1.30
CURERN APPLICATION DATA:
APPLICATION NUMBER: US/08/870.126
FILING DATE: US/08/870.126

CLASSIFICATION: 530
PRIOR ADPLICATION DATA:
APPLICATION NUMBER: US 08/435,454
FILING DATE: 05-MAY-1995
PACKA APPLICATION DATA:
APPLICATION NUMBER: US 08/652,572
FILING DATE: 24-MAY-1996
ATTURNEY/AGENT INFORMATION:

TELEPHONE: 125-540-500
TELEPHONE: 215-540-500
TELEPHONE: 215-540-500
TELEPHONE: 215-540-5818
FOMMATION THE SEA THE MO: 10:
EDUBLE: CHARACTERISTICS:
LENGTH: 326 base pairs
LENGTH: 326 base pairs
STANDEDNESS: double
TOPOLY E: Kodroif, Cathy A. ISTRATION NUMBER: 33,980 ERENCE/DOCKET NUMBER: WS

NAME/KEY: exon LOCATION: 677..734 OTHER INFORMATION: /note* "exon 3"

/note- *exon 4.

NAME/KEY: exon LOCATION: 851..945 OTHER INFORMATION:

[CFOLOGY: unknown LECULE TYPE: DNA (genomic)

: NAME/KEY: exon LOCATION: 2473...2579 COMBER INFORMATION: /note* *exon 6* US-08-870-126-10

NAME/KEY: exon LOCATION: 1408..1503 OTHER INFORMATION: /

U)

Query Match 2.2%; Score 20; Db Best Local Similarity 100.0%; Pred. No. 4. Matches 20; Conservative 0; Mismatches

Db 3; Length 1226;

0; Gaps

Ö

0;

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Oy 262 tetchaggagecreastrica 281

Db 1297 TTCTCAGAGCCTCAGTTTCC 1278

RESULT 5

GS-09-128-155-16/c

Sequence 16. Application US/09128155

Patent No. 6117654

GENERAL INFORMATION: AND USES THEREOF

FILE OF INVANITION: AND USES THEREOF

FILE REFERENCE: 09404/0762001

CURRENT FILING DATE: 1999-08-03

EARLIER APPLICATION NUMBER: US/09/128-1155

CURRENT FILING DATE: 1999-08-03

EARLIER APPLICATION WHOMER: US/09/34-646

SUNDERS OF SEQUENCE: 1999-08-04

WHALER OF SEQUENCE: 1999-08-04

WHALER OF SEQUENCE: 1999-08-04

WHALER OF SEQUENCE: 1999-08-04

SEQUENCE: 1997-08-04

WHALER OF SEQUENCE: 1999-08-04

ORGANISM: HOMO SAPIENS

FEATURE: NASC-Feature

LOCATION: (1): ... (132331)

ORGANISM: MOMO SAPIENS

FEATURE: NASC-Feature

LOCATION: (1): ... (132331)

OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

OS 909-128-155-16

OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

OS 909-128-155-16

OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

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OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

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OUGHY MATCH

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BASE LOCAL SIMILARITON: n - A.T.C Or G

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BASE LOCAL SIMILARITON: n - A.T.C Or G

OS 909-128-155-16

OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

OUGHY MATCH

BASE LOCAL SIMILARITON: n - A.T.C Or G

OUGHY MATCH

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BASE LOCAL SIMILARITON: n - A.T.C Or G

OUGHY MATCH

DATE IN MATCH SIMILARITON: n - A.T.C Or G

OUGHY MATCH

OUGHY
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Query Match 2.1%; Score 15; DB 2; Length 28; Best Local Similarity 100.0%; Pred. No. 14; Matches 15; Conservative 0; Mismatches 0; Indels

0;

Gaps

506 aggcaaaaaaaaaaaaaaa 924

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TELERA:
TELEX: $04116
INFORMATION FOR SEQ ID NO: 21
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
LENGTH: 28 base pairs
TYPE: nucleic acid
STANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Homo saptens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(176373)
OTHER INCOMMATION: n * A,T,C or G
US-05-126-155-17
                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Version 3.0 SEQ. ID NO 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Overy Match 2.2%; Soure 20; DB 3; Leigth 176373; Best Local Similarity 100.0%; Pred, Mo. 36; Matches 20; Conservative 0; Hismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: Foley & I
                                                                                                                 REFERENCE/DOCKET NUMBER: 33
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TFLEFAX: (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 3000 K St
CIIY: Washington
STATE: D.C.
COUNTRY: USA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LICANI: DUVICK, JONATHAN F.
LICANI: BKIGGS, Steven P.
LLE OF INVENTION: PCR-BASED CDNA SUBFRACTIVE CLONING
ILE OF INVENTION: METHOD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21, Application US/08856767
o. 5837468
INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           176373
                                                                                                                                                                                                                                                                                                                                                                                                                                                         E: Foley & Lardner
3000 K Street, N.W., Suite 500
                                                                                                                                                                     33229/325/PIHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Indels 0;
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Query Match 2.1%; S
Best Local Similarity 100.0%;
Matches 19; Conservative 0;
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-003/MS-Dos
SOFTWARE: Parentin Release *1.0, Version *1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (202)672-5399
TELEX: 904136
FORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                      APPLICATION NUMBER FILING DATE: 19-M CLASSIFICATION: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OR APPLICATION DATA:
OR APPLICATION NUMBER: US 08/481,687
FULING DATE: 07-UN-19-5
TORNEY_AGENT INFORMATION:
AMB: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REGISTRATION NUMBER: 33229/325/1
RECOMMUNICATION INFORMATION:
FELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LICANT: BRIGGS, Steven P.

"LE OF INVENTION: PCR-BASED CDHA SUBTRACTIVE CLONING
"LE OF INVENTION: PCR-BASED CDHA SUBTRACTIVE CLONING
"LE OF INVENTION: METHOD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ER OF SEQUENCES: 39
ESPONDENCE ADDRESS:
ESPONDENCE ADDRESS:
DRESSEE: FOLEY & Lardner
UREET: 3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Washington
: D.C.
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N: 435
PCR-BASED CDNA SUBTRACTIVE CLONING METHOD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3229/325/PIHI
                                                                                                                                                                                                                                                                                                                    Indels
```

Query Match 2.1%; Sco. Best Local Similarity 100.0%; Pro-Matches 19; Conservative 0; Conservat

STREET: 3000 ...
CITY: Washington
STATE: D.C.

APPLICATION DATA

US/08/663,028

CATION: 435 ICATION DATA: ICA NUMBER: US/08/858,767 AIE: 19-MAY-1997 TYPE: Floppy disk

TYPE: IBM PC compatible
ING SYSTEM: PC-DOS/MS-DOS
RE: Patentin Release *1.0, Version *1.30

OF SECUENCES: 39
PONDENCE ADDRESS:
ESSEE: Foley & Lardner
ET: 3000 K Street, N.W., Suite 500

CICANI: DUVICK, Jonathan P. CIICANI: BRIGGS, Steven P. CLE CF INVENIION: PCR-BASED CDNA SUBIKACTIVE CLONING CLE CF INVENIION: METHOD

1, Application US/08863028 5853591

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SIREEL JOOK STEERE, N.H. SUITE 500

TITY KASLITATION

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CHARLES FORM

CELUM TYPE: FLOPY disk

DEEMING SYSTEM FC POSTANION

CHARLES PARCHAIN NUMBER: US/08/955.767

ILING DATE: 19-WAY-1957

LASSIFICATION NUMBER: US/08/955.767

ILING DATE: 19-WAY-1957

FAILARION DATA:

APPLICATION HOBBER: US 08/461.687

FAILARION DATA:

APPLICATION HOBBER: US 08/461.687

FAILARION DATA:

APPLICATION HOBBER: US 08/461.687

FEILING DATE: 07-UM-195

AIJARES FOR SECONDATION:

ELEPHONE: (202)672-5309

ILEN: VAIIG

ILEN: VAIIG

SELEM: 20 DAG: 33:

SELEM: VAIIG

INGEREAL DAG: 10 NO: 23:

SELUBIC FOR SECONDAY

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Wed May 1 07:51:05 2002

2R: US 08/481,687 -JUN-1995

RESULT 13 US-09-248-335-29

Query Match 2.1%; Score 19; DB Best Local Similarity 100.0%; Pred. No. 14; Matches 19; Conservative 0; Mismatches

0; Indels

0, Gaps

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Gaps
IELERA: (204).

IELERA: 904156
INFGHATION FOR EEO ID NO: 23:
ESCHENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: Ducleic cid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 2.1%; Score 19; Best Lucal Similarity 100.0%; Pred. No. Matches 19; Conservative 0; Mismatc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AFELICAN: HANG, XUN
AFELICAN: BOVICK, Jonathan F.
AFELICAN: BVICK, Jonathan F.
AFELICAN: BRIGGS, Steven P.
TILLE OF INVENTION: FCR-BASED CENA SUBIRACTIVE CLONING
TILLE OF INVENTION: HETHOD
NUMBER OF SEQUENCES: 199
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NUMBER 
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MELTUM TYPE: Floppy disk

COMPUTER: IBM PC compartible

COMPUTER: PC POS/MS:565

STEMARE: PAtentin Release #1.0, Version #1.36

STEMARE: PAtentin Release #1.0, Version #1.36

CURRENT APPLICATION DATA:

185701791704 NUMBERS #18704/661 028
                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 435
PRICA APPLICATION NAMER: US/08/858,767
APPLICATION NUMBER: US/08/858,767
FILING DATE: 15-MAY-1997
APPLICATION NUMBER: US 08/481,687
FILING DATE: 07-JUN-195
AITJANEY/AGENT INFORMATION:
MAME: BENT, Stephen A: 7,768
REGISTRATION NUMBER: 129,768
REFERENCE/JOCKET NUMBER: 33225/325/4
REJERONICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEPAX: (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET 3000 K Street, N.M., Suite 500
STATE: Washington
STATE: U.C.
CLUNTAR: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3, Application US/08863028
5853991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US/08/863,028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       33225/325/PIHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; indels
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```

Query Match 2.1%; Sometime 100.0%; I Best Local Similarity 100.0%; I Matches 19; Conservative 0;

TELEX: 904136
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

single

PHONE: (202)672-5300

us-09-248-178-62.rni

, Application US/09248335 6096504

: O'KEEF, DANIEL
INVENTION: PLANT GLUTATHIONE-S-TRANSFERASE ENZYMES
RENGE: CL-1128-A

ON NUMBER: US/05/248,335 TE: 1999-02-10

```
Query Match 2.1%; Score 19;
Best Local Similarity 100.0%; Pred. No.
Matches 19; Conservative 0; Nismatc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Micro
EQ ID NO 29
LENGTH: 1134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -672-850-5
                                                                                                      RECISTRATION MUMBER: 39.304
REFERENCE, JOCKET MUMBER: A-63
ELECOMMUNICATION UNFORMATION:
TELEPHONE: (415) 791-1399
TELEPA: (415) 791-1249
DRIATION FOR SED 199-1249
EQUENCE CHARACTERISTICS:
EQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -850-5
                                                                                                                                                                                                                                                                                                                                                                                                                  : San נו...
E: California
שידתץ: United States
                                                                                                                                                                                                                                                                                                                 TYPE: Floppy disk
ER: IBM PC compatible
RR: PSYSTEM: PC-DOS/MS-DOS
RR: Patentin Release #1.0, Version #1.30
APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Microsoft Word Version 7.0A
                                                                                                                                                                                                                                                                                                                                                                                                       READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Application US/08672850
140117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          : Flehr, Hohbach, Test, Albritton & Herbert
Four Embarcadero Center, Suite 3400
n Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wilbrandt, Jeffrey
Araki, Toshiyuki
                                                                                                                                                                                                                                                                                24-JUL-1996
                                                                                                                                                                                                                                                                                                   US/08/672,850
                                                                                                                                                                                               A-63610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1134;
```

Query Match 2.1%; Score 19; DB 3; Length 1235; Best Local Similarity 100.0%; Pred. No. 12;

Gaps

Application US/08833823 5969093

Jacobs, Kenneth McCoy, John Kelleher, Kerry

```
: NAME/KEY: CDS
; LOCATION: 38..1447
US-08-514-014-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 19; Conservative
Obery Match 2:18; Score 19; Lb 1; Length 2209; Bast Local Similarity 100.08; Prod. No. 12; Matches 19; Conservative 0: Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER REALABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC compatible
OPERATING SYSTEM: PC-FOS/MS-FOS
SOFTWARE: PAtentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/514,014
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DDRESSEE: Genetics Institute, Inc. -- Legal Affairs
ITREET: 87 CambridgePark Drive
ITY: Cambridge
ITALE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                          E: Brown, Scott A.
ISTRATION NUMBER: 32,724
ERENCE/DOCKET NUMBER: GI-
DMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            NEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Application US/08514014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA SEQUENCES AND SECRETED PROTEINS ENCODED THEREBY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
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```

ADDRESSEE: Genetics Institute, Inc. -- Legal Affairs STREET: #7 CambridgePark Drive CITY: Cambridge STATE: Massachusetts

SEQUENCES AND SECRETED PROTEINS

```
: NAME/KEY: CDS
; LOCATION: 38..1447
US-08-833-823-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 2.1%; So
Best Local Similarity 100.0%; I
Matches 19; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                            NAME: BROWN, SCOLT A.
REGISTRATION UNMBER: 32,724
REFERENCE/DOCKET NUMBER: G160
TELECOMMUNICATION INFORMATION:
TELEPHONE: (61) 498-8224
TELEPHONE: (617) 876-5851
INFORMATION FOR SEO ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FOAM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC COMPACIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PATENTION DATA:

APPLICATION NUMBER: US/08/833.823

FILING DATE: 10-AFR-1937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                     Application US/08813150
                DNAX Research Institute
901 California Avenue
                                                                                                                                                                                                               weller, Christopher
ebecque, Serge J.E.
fornia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MBER: 08/514,014
11-AUG-1995
                                                                                                                                       ing, Lynette M.
ine, Constance M.
in, Daniel M.
                                                                                                       WAMMALIAN PROTEINASES; OXIDOREDUCIASES; RELATED REAGENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 19; DB 2;
; Pred. No. 12;
U; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 2205;
```

US95-09261-1

sence 1, Application PC/TUSy509261
NERAL INFORMATION:

BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM 201 West 7th Street Austin

COMPUTER READABLE FIGHT

REDUIN TIPE: Floppy disk
COMPUTER: HAW PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-L/JS/ASCII
SOFTMARE: PATENTIAN Release 11.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/USS/J05261
FILLING DATE: CONCURRENTLY HEREWITH

IOR APPLICATION DATA: APPLICATION NUMBER: US 08/283,701

ADDRESSEE: STREET: P.

E: Arnold, White a Durkee P.O. Box 4433 UNITED STATES OF AMERICA

CANI POSTAL CODE: 78701
CANI TELEPANE NO: C5121495-4462
CANI TELEFAX: (512)499-4523
CANI TELEFAX: (512)499-4523
OF INVENTION: METHODS AND COMPOSITIONS FOR THE EXPRESSION OF DELIVENTION: A BOIN EARD PROSTATE DERIVED GROWTH FACTOR

United States of America E: 78701

```
NAME/KEY: CDS:
1 LCCATION: 61..1470
US-08-613-150-1
                                                 INFORMATION FOR SEQ ID NO: 1:
SECUENCE CHARACTERISTICS:
INFORMATION STANDEDNESS: Single
MOLECULE TIME: ONA
                                                                                                                                                                                                                                                       CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                KAME: Ching, Edwin P.
REGISIFATION NUMBER: 34,090
REFERENCE/DACKET NUMBER: SFO6/
ELECOMMUNICATION INFORMATION:
IELEPHONE: 650-652-5196
TELEFAX: 650-496-1200
                                                                                                                                                                                                                                                                                                                                                         SASOA-1104
K READABLE FORM:
                                                                                                                                                                                          SF0693
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v_ery_Match 2.1%; Score 19; Db 3; Length 2280; East Local Similarity 100.0%; Pred. No. 12; Matches 15; Conservative 0; Mismatches 0; Indels
                                                                      0;
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NAME: SERTICH, GARY J.

FILING DATE: 01-AUG-1994 CLASSIFICATION:

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RECISTANTON MUNEER: 34.430

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541..1072
exon
5553..5588
                      exon
5162..5500
                                           exon
5006..5113
                                                                 excn
4793..4956
                                                                                                            exon
4291..4438
                                                                                                                                   exon
4016..4244
                                                                                                                                                        exon
3831..3966
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3614..3776
                                                                                                                                                                                                    exon
3438..3561
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3076..3379
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1443..1872
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1130..1395
                                                                                                                                                                                                                                                                      exon
2479...2863
                                                                                                                                                                                                                                                                                           exon
1925...2426
```

RESULT 20
SS-99-991-332A-50
SS-99-901-332A-50
PATENT NO. 6284462
GENERAL INFORMATION:
APPLICANT: SATIO, YOSHIHIRO
APPLICANT: SUGA, AKHINGO
APPLICA

Query Match 2.1%; Scot Best Local Similarity 100.0%; Pro Matches 19; Conservative 0; I

0; Indels 0;

```
Overy March 1.5%; Score 18; DB 4; Length 53; Best Local Similarity 100.0%; Pred. No. 38; Matches 18; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: US

ZIP: 6001-6780
COMPUTER READABLE FORM:

MEDIUM TYPE: FIDDRY disk
COMPUTER: IBM FO DOMPATIBLE
OPERATING SYSTEM: FC-DOS/MS-LoS
OPTHARE STATEM: FC-DOS/MS-LoS
SOFTHARE STATEM: FC-DOS/MS-LoS
SOFTHARE STATEM: FC-DOS/MS-LoS
APPLICATION NUMBER: US/QS/O91,332A
APPLICATION NUMBER: US/QS/O91,332A
                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: LEYDIG, VOIT & MAYER, LID.
STREET: TWO PRUDENTIAL PLAZA, SUITE 4900
CITY: CHICAGO
STATE, II
                                                                                                                                                                                                        zerce 85, Application US/08120827
ZIP: 22202
DMPUTER READABLE FORM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
CLASSIFICATION: 435
CLASSIFICATION DATA:
RIOR APPLICATION NUMBER: WO 97JP3438
FILING DATE: 26-SEP-1997
FILING DATE: 435
                                       OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTALT.
                                                                                                                                                                                                                                                                                                                               0:
```

```
ATTORNEY/AGENT INFOGMATION:
ANAME FOLION, NO. 5225495man F.
REGISTRATION UNBER: 24,018
REFERENCE/COCKET NUMBER: 714156
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION
TELECOMMUNICATION
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COMPUTER: IBM FC COMPATION
OPERATING SYSTEM: PC-DOS/MS-EGS
SOTTWARE: Patentin Release 11.0, Version 11.25
CUBRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/08/120,827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             714-156-0 CIP
```

Query Match 1.9%; Score 16; DB 1; Best Local Similarity 100.0%; Pred. No. 38; Matches 18; Conservative 0; Mismatches

Length 57;

APPLICANI KEENE JACK D.
APPLICANI KING, PETER H.
APPLICANI LEVIRE IODDO
ITILE OF INVENTION METHODS AND COMPOSITIONS USEFUL IN THE
ITILE OF INVENTION RECOGNITION, BINDING AND EXPRESSION OF I
ITILE OF INVENTION INVOLVED IN CELL GROWTH, NEOPLASIA AND
NUMBER OF SEQUENCES JOI
CORRESPONDENCE ADDRESS: 85, Application US/08478675 p. 5773246 RIBONUCLEIC ACIDS IMMUNOREGULATION

COMPUTER ACCOUNTS.

COMPUTER STATES. PROPRY GISK

REDINITYPE: Flappy Gisk

COMPUTER: THAT COMPATIBLE

COMPATIBLE

APPLICATION UNDER: US/08/478,675

FILING DATE: OP-JUN-1996

FILING DATE: OP-JUN-1996

FILING DATE: THAT COMPATION

APPLICATION UNDER: US/08/120,627

FILING DATE: THAT COMPATION

ANAME: COLOR, NO. 5773246man F.

REGISTANION UNDER: 418

REGISTANION UNDER: 34.18

REGISTANION UNDER: 714.158-0 CIP

TELECOMBURGATION:

TELECOMBURGATION:

TELECOMBURGATION:

TELECOMBURGATION:

TELECOMBURGATION:

TELECOMBURGATION: ALDRESSEE: OBLON. SPIVAK, MCCLELLAND, MAIER & MEUSTAUT, ALDRESSEE: P.C.
SIREE: 1755 Jefferson Davis Highway, Fourth Floor CITY: Arlington STATE: Virginia COUNTRY: U.S.A.
21P. 22202

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Page 10
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US-08-478-675-85
                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
ATTORNEY/AGENT INFORMATION:
NAME: BFOWN, SCOLE A.
REGISTRATION NUMBER: 32.724
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEPHONE: (617) 498-8224
INFORMATION FOR SED ID NO: 4.
SEQUENCE CHARACTERISTICS:
LENGTH: 308 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ouery March 1.9%; Score 18; Db 1; Length 57; Best Local Similarity 100.0%; Pred, Mo. 36; Marches 18; Conservative 0; Mismatches 0; Indels
   Ouery March 1.9%; Score 18; D5 2; Length 306;
Best Local Similarity 100.0%; Pred. No. 36;
Marches 18; Conservative 0; Mismarches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER ENABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compactible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Versic: #1.30
APPLICATION DATA:
APPLICATION UNBER: US/08/721,488
FILIMO DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genetics Institute, Inc.
STREFT: 80 CambridgePark Drive
CITY. Cambridge
STATE: Massachusetts
COUNTRY: 0.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELERYA: (703)413-2220
TELEX: 248855 OPAT UR
FORMATION FOR SEQ ID NO: (
SEQUENCE CHARACTERISTICS:
LENUTH: 57 base pairs:
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PPLICANT: Jacobs, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PPLICANT: LaValis Edward

PPLICANT: Racie, Lisa

PPLICANT: Nerberg, David

PPLICANT: Treasy, Murrice

PPLICANT: Spatiding, Vikki

PPLICANT: Spatiding, Vikki

PPLICANT: Spatiding, Vikki

PPLICANT: Spatiding, Michael

TILE OF INVENTION: SEKEMFED PROTEINS AND POLYNUCLECTIDES

TILE OF INVENTION: ENCODING THEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                02140
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965388
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0; Indels
   0
Gaps
                                                                                                                                                                                                                                                                                      TELEPAX: 215-567-2991
TELEX: dil-145 MO: 157:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
LENGIH: 343 base pairs
TYPE: nucleic acid
STRANGENESS: double
TOPOLOST: linear
MOLECULE TYPE: DNA (genomic)
S-08-943-731-157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANI: KOKKO, JARAD
APPLICANI: KOKKO, JARAD
APPLICANI: KOKKO, LEENA, et al.
APPLICANI: ALA-KOKKO, LEENA, et al.
APPLICANI: ALA-KOKKO, LEENA, et al.
IIILE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING
IIILE OF INVENTION: ALTERED TYPE I OR TYPE IX COLLAGEN GENE SEQUENCES

KUMBER OF SEQUENCES: 64

COMPLET: ONE COMMERCE SQUARE, 2005 MARKET STREET, 22MD

STREET: ONE COMMERCE SQUARE, 2005 MARKET STREET, 22MD

STREET: ONE COMMERCE SQUARE, 2005 MARKET STREET, 22MD

STREET: HAR.
COUNTRY: USA
CIPY: PHILADELPHIA

STAIE: PA
COUNTRY: USA
ZIP: 19303-7066

COMPUTER REALABLE FORH:
MEDIUM IYFE: FORPH SILK
COMPUTER: ILAP COMPAILIS

COMPUTER: ILAP COMPAILIS

COMPUTER: PROPOS/MS-DOS
SOFTMARE: PACHOLIN RUBER: US-08/712.322

APPLICATION NUMBER: US-08/712.322

FILING LATE: 14-MAR-1944

FILING LATE: 10-DEC-1951

ANDELS-SINI INFORMATION:
REJISTALION NUMBER: US-08/712.322

FILING LATE: 03-DEC-1951

ANDELS-SINI INFORMATION:
REJISTALION NUMBER: US-08/712.322

FILING LATE: US-08/712.322

FILING LATE: US-08/712.322

FILING LATE: US-08/712.322

APPLICATION NUMBER: US-08/712.322

FILING LATE: US-08
                                                                                                                                           wery Match 1.94; Score 18: Lb 4: Length 343;
Best Local Similarity 100.08; Pred. No. 35;
Matches 18: Conservative 0; Mismatches 0; Indels
                       /, Application US/08943731
6265157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SPOTITAL LORETTA D.
SPOTITAL CONSTANTINGS D.
SEREDA, LARISA
LARISA, ANDREA W.
PACK, MICHAEL
COLICE, ALAIN
EARLY, JARES
KORKKO, JARMO
                                                                                                                                                   0
                                                                                                                                                   Gaps
```

09-342-653-

Application US/09342653

Sequence 1, Application US/09342653

PATENT NO. 630652

GENERAL IRPORMATION:
APPLICANT: RELATION, Rebecca E.
APPLICANT: RELATION Chromatin Associated Proteins
TITLE OF INVENTION: Chromatin Associated Proteins
FILE REPERENCE: BB-1118

CURRENT APPLICATION UNMEER: US/09/312.653

CURRENT APPLICATION UNMEER: 05/09/312.653

CURRENT APPLICATION UNMEER: 06/092.841

EARLIER APPLICATION UNMEER: 60/092.841

EARLIER FILING DATE: July 14, 1998

NUMBER OF SED ID NOS: 7

SED ID NO 1

LEWITH A13

; TYPE: DNA ; ORGANISM: Zea mays US-09-342-653-1

413

Query Match 1.9%; Score 18; Best Local Similarity 100.0%; Pred. No. Matches 18; Conservative 0; Mismatc

ore 18: DB 4; Length 413; Fred. No. 35; Mismatches 0; Indels

Gaps

```
ATTORNEY AGENT INFORMATION:
NAME: BIFOWN, SCOUL A.
REGISTRATION NUMBER: 32,724
TELECOMMUNICATION INFORMATION:
TELEPHAN: (617) 876-5851
INFORMATION FOR SED ID NO: 13:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: MCCOy, John
APPLICANT: MCCOy, John
APPLICANT: MCCOy, John
APPLICANT: Racia, Lisa
APPLICANT: Racia, Lisa
APPLICANT: Treacy, Mourice
APPLICANT: Treacy, Mourice
APPLICANT: Evans, Cheryi
APPLICANT: Spaulding, Viki
TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEWIIDES
TITLE OF INVENTION: ENCODING THEM
NUMBER OF SEQUENCES: 71
NUMBER OF SEQUENCES: 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-686-878A-13
                                                                                                                                                                                         COMPUTER READABLE FORM:

#EDIUM TYPE: Floppy disk
COMPUTER: IBM PC compactible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PSICHIO RELEASE #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/686,878A
FILING DATE:
CLASSIFICATION: 536
ATCORNEYACEUT BUTCOMMETCH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: Massachusetts
COUNTRY: U.S.A.
ZIP 00110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Genetics Institute, Inc. STREET: 87 CambridgePark Drive CITY: Cambridge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3, Application US/0<del>868686878A</del>
5708157
```

RESULT 28 US-08-858-630-1/c

Overy Match. 1.9%; Score 18; DB 1; Best Local Similarity 100.0%; Pred. No. 35; Matches 18; Conservative 0; Mismatches

0: Indels

0; Gaps

```
COMPUTER READBLE FORM:

KEDIUM TYPE: Floppy disk
COMPUTER READBLE FORM:
COMPUTER READBLE FORMS

OPERATING SYSTEM: PC-DOS/MS-DOS
CORENT APPLICATION DATA:
APPLICATION NUMBER: US/08/702.080
FILING DATE:
CLASSIFICATION NUMBER: US/08/702.080
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: BFOOD, SCOLL A.
REGISTRATION NUMBER: 32.774
TELEPHONE: (617) 458-86224
TELEPHONE: (617) 458-8621
INFORMATION FOR SED ID NO: 1:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
LEWGHH: 432 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: Innear
MOLECULE TYPE: CDMA
US-08-702-080-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 27
US-08-702-080-1/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANI: MCCOY, John
APPLICANI: Racie, Lisa
APPLICANI: Racie, Lisa
APPLICANI: Racie, Lisa
APPLICANI: McCoberg, David
APPLICANI: McCoberg, David
APPLICANI: McCoberg, David
APPLICANI: Spaulding, VIKKI
TILE OF INVENTION: ENCODING THEM
INTLE OF INVENTION: ENCODING THEM
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS: 11
CORRESPONDENCE ADDRESS: Genetics Institute, Inc.
STREET: AT Canabridge STATE: Massachusetts
CITY: Conabridge
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Overy Match

Best Local Similarity 100.0%; Pred. No. 35;

Matches 18: Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   uence 1, Application US/08702080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Jacobs, Kenneth
McCoy, John
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 429;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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Application US/08658830 965693

Kenneth

Edward

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APPLICANT: Pready, Maurice
APPLICANT: Spaiding, VIKE
APPLICANT: Spaiding, VIKE
APPLICANT: Spaiding VIKE
APPLICANT: Spaiding APPLICANTS
INTEE OF INVESTIGN. SECRETED PROTEINS AND POLYNUCLECTICES
INTEE: OF INVESTIGN.
CORRESPONDENCE ALDRESS:
ADDRESSEE; Generics Institute, Inc.
STREET: B) CambridgePark Drive
COUNTRY MESSCHUSET.
ADDRESSEE; Generics Interpretation
COMPUTER: IMM PC Compatible
COUNTRY MESSCHUSET.
APPLICATION MUSER: US/08/859.33
COMPUTER: IMM PC COMPATION
APPLICATION MUSER: US/08/859.330
CIASSIFICATION APPLICATION DATA.
APPLICATION MUSER: US/08/859.310
FILING ADDRESSEE; Generics Interpretation
APPLICATION MUSER: US/08/859.310
FILING APPLICATION MAKER: US/08/859.310
FILING APPLICATION MODERN: US/08/859.310
FILING APPLICATION MODERN: US/08/859.310
FILING APPLICATION MODERN: US/08/859.311
SERVENATION SECRETED PROTEINS AND POLYNUCIES.
FILING APPLICANT: MACROT. DAVID
APPLICANT: MACROT. DAVID
APPLICANT: MACROT. DAVID
APPLICANT: MACROT. DAVID
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APPLICANT: MACROT. DAVID
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APPLICANT: MACROT. DAVID
APPL
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Query Match 1.9%; Score 18; Best Local Similarity 100.0%; Pred. No. Matches 18; Conservative 0; Mismatch

DB 2; Length 432; . 35;

JIER READABLE FORM: NIUM TYPE: 3.5 inc

inch 1.44 Mb storage diskette

PC-DOS

T: Reinhard Buttner I: Brigitte Kaluza INVENTION: MELANOMA-INHIBITING FRUTEIN F SEQUENCES: 24

805 Third Avenue

Application US/08578649 770366

ICATION NUMBER: DE P 43 24 247.2 NG DATE: 20-July-1993 IV/AGENT INFORMATION:

JMBER: US/08/578,649 29-July-1994

```
ACCASSES: Genetics Institute, inc.

STEEL: 87 CambridgePath Drive

STATE: HASSACHMENT

CAMBRIDGE TORM:

CAMB
```

TELEPAX: (212) 838-3884
INFORMATION FOR SEO ID NO: 4
SEQUENCE CHARACTERISTICS:
LENGTH: 581 base pairs
TYPE: oucleic acid
STRANDEDNESS: single

```
Oy 907 99C2AAAAAAAAAAAAAAA 530

RESULT 31

Db 563 GGCAAAAAAAAAAAAAAAAA 530

RESULT 31

US-09-185-562-98/c

Sequence 98, Application US/03385382

Patent No. 62623134

Patent No. 6262314

``

APPLICANI: Allen, Steve
APPLICANI: Rafalski, Antoni
APPLICANI: Sakai, Hajime
IIILE OF INVENTION: Plant Hetal Transporters
FILE REFERENCE: BBJ309 US WA
CUMARNI APPLICATION NUMBER: US/05/461,474
CUMARNI FILING DAIE: 1999-12-14
EARLIER APPLICATION NUMBER: 60/112,562
EARLIER FILING DAIE: 1998-12-16

Application US/09461474 78042 Query Match 1.9%; Score 16; Best Local Similarity 100.0%; Pred. No. Matches 18; Conservative 0; Mismato

Length 621;

Gaps

: TYPE: DNA : OKJAWISM: Triticum mestivum US-09-461-474-13

Ouer; Match Billarity 100.0%; Score 18; DB 4; Length 790; Best Local Similarity 100.0%; Pred, No. 34; Matches 18; Conservative 0; Mismatches 0; Indels

SOFTWARE: Microsoft Office 97
SEC ID NO 13
LENGTH 790
TYPE: TAND

```
GS-05-32-111-572/c

GS-05-32-111-572/c

Seq-acce 57.z Application US/05326111

Patcal No. 262333

GENERAL INFORMATION:

APPLICANT Endege, Wilson O.

APPLICANT Endeges Christopher C.

APPLICANT Endeges Christopher C.

APPLICANT Eather Incodere J.

APPLICANT Eather Incodere J.

APPLICANT Cariol III. Eddie

APPLICANT Ectin, Monan

APPLICANT Ectin, Monan

APPLICANT Ectin, Monan

APPLICANT Ectin, Morela E.

APPLICANT Ectin, Morela E.

APPLICANT Exchann, John E.

APPLICANT Exchann, John E.

APPLICANT MONANN MOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

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IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. NOVEL HUMAN GENES AND GENE EXPRESSION

IIILE OF INVENTION. SOUTH GENES AND GENE EXPRESSION

IIILE OF INVENTION. SOUTH GENES

I
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; NAME/KEY: mat\_Peptide ; LOCATION: 179.459 US-08-578-649-4

TOPOLOGY: linear TOPOLOGY: cDNA ATURE: cDNA ATURE: CDS LOCATION: 110.499 ATURE: sig\_paptide LOCATION: 110.178

Juery Match 1.9%, score ls; Lb 1; Lengti, 581; Best Local Sinilarity 100.0%, Pred. No. 35; Matches 18; Conservative U: Hismatches O; Indels

5, Application US/08684672 5700926

```
; NAME/KEY: CDS
; LOCATION: 243..650
US-08-684-672-25
 Query Match 1.9%; So
Best Local Similarity 100.0%; I
Matches 18; Conservative 0;
 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATE: PATENTION REASE #1.0, Version #1.30
CURRENT APPLICATION UNMER: U5/08/664.672
FILING DATE: 22-UL-1956
CLASSIFICATION NUMBER: U5/08/664.672
PRICH APPLICATION NUMBER: U5/08/654.977
FILING DATE: 27-APR-193
PRICH APPLICATION NUMBER: U5/08/052,997
FILING DATE: 27-APR-193
ATTORREY/AGENT INFORMATION:
 APPLICANT: SCHLESSINGER, David
APPLICANT: de la CHAPELLE, Albert
APPLICANT: SRIVASTAVA, Anand Kumar
TITLE OF INVENTION: MOLECULAR CLONING OF THE ANHIDAGTIC
TITLE OF INVENTION: ECTODERNAL DYSPLASIA GENE
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSE: BURNS, DOANE, SWECKER & MATHIS, L.L.P.
STREET: P.O. BOX 1404
CITY: ALEXANDIA CALCAS
COUNTRY UNITED STATES
COUNTRY 1404
STATE: VIGINIA
STATE: VIGINIA
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STATE: VIGINIA
COUNTRY UNITED STATES
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ST
 TELEFAX: (703) 836-2021
FORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 854 base pairs
TYPE:
 TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
 NAME: O'Shaughnessy, Brian P.
REGISTRATION NUMBER: 32,747
REFERENCE/DOCKET NUMBER: 0309/SELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
 TYPE: nucleic acid
STRANDEDNESS: sing
PLICANT: KERE, Juha
PLICANT: SCHLESSINGER, David
PLICANT: de la CHAPELLE, Albert
 Application US/08684672
 030956-002
 DB 1;
 Gaps
```

C.CAPUIER READABLE FUNH:
MEDIUM TYRE: Floppy disk
LCAPUIER: IBM PC compatible
CPERATING SYSTEM: PC-DOS/MS-LOS
SCTIMARE: Patentin Release #1.0, Version #1.25
CUKRENT APPLICATION DATA:

EAL INFOMATION:
FILCANI: The Government of the United States of America.
FILCANI: as represented by the Secretary, Department of Health and Human FILCANI: Services
FILCANI: Services
Hammalian Muscle NAD:Arginine
TILE OF INVENTION: App-thosyltransferase
UMBER OF SEQUENCES: 38 THOSYLTRANSFERASE
UMBER OF SEQUENCES: 10 F. App-thosyltransferase

E: Knobbe, Martens, Olson & Bear 620 Newport Center Brive, 16th floor export California

INFORMATIO

Application US/08896410

```
; HULECULE TYPE: DNA (genomic)
US-08-Cd4-672-26
 ACARDISATION MARKET BANKS, DOANE, SNECKER & HATHIS, L.L.P.
ACARDSEE: BANKS, DOANE, SNECKER & HATHIS, L.L.P.
SIRETI: P.O. BOX 1404
SIRETI: P.O. BOX 1404
SIRETI: VIGINIA
STATE: VIGINIA
STATE: VIGINIA
STATE: VIGINIA
CUNCER: United States
2019: 22313-1404
CLMPUTER READABLE FORM:
REDIUM TYPE: Floppy disk
REDIUM TYPE: Floppy disk
REDIUM TYPE: Floppy disk
REDIUM TYPE: FLOPPY disk
REDIUM TYPE: FLOPPY disk
REDIUM TYPE: FLOPPY disk
REDIUM TYPE: FLOPPY disk
REDIUM TYPE: FLOPPY disk
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Oder; Match 1.9%; Score 16; DB Best local Similarity 100.0%; Pred. No. 34 Matches 18; Conservative 0; Mismatches
 AFFILEANI: SRIVASIAVA, AMBOD KUMBET

TILLE OF INVENTION: MCLECULAK CLOSHING OF THE ANHIDROTIC

TILLE OF INVENTION: ECTODERMAL DYSPLASIA GENE

KLYSEK OF SECUENCES: 3

COMMESSIGNIENCE ANDRESS:
 NAME: O'Shaughnessy, Brian P.
REGISIRATION NUMBER: 32,747
REFERENCE/DOCKET NUMBER: 030956-062
LECCHMINICATION INFORMATION:
```

APPLICATION NUMBER: US/08/896,410 FILING DATE: 18-JUL-1997 CLASSIFICATION: 435

```
AMPEREY/AGENT INFORMATION:

AMPERISTRATION NUMBER: 13.6170

REGISTRATION FOR SEQ. ID NO: 37:

SEQUENCE: CHRACTERISTICS:

LENGTH: 1305 base pairs

LENGTH: 1305 base pa
```

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: FEATURE:
: NAME/KEY: CDS
: LOCATION: 1..655
US-08-631-200-14
 ; NAME/KEY: CDS
; LOCATION: 2..1039
US-09-073-297-1
 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-UOS
SOFTMARE: PATENTIAN RELEASE #1.0, VETSION #1.30
CURRENT APPLICATION NUMBER: US/08/631,200
FILING DATE: 12-APR.1996
CLASSIFICATION: 435
ATTORNEY/ADENT INFORMATION:
ANAPE: COTIFY! INFORMATION:
 Query Match 1.9%; Score 16; Best Local Similarity 100.0%; Pred. No. Matches 16; Conservative 0; Mismatc
 TELEFAX: (2)2) 669-5747/8664
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 1386 base pairs
TYPE: Gucleic acid
STARNIZENESS: unknown
 TOPCLCGY: unknown
MOLECULE TYPE: DNA (genomic)
 NAME: COTUZZI, LAUTA A.
REGISTATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 788
FELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9950
 ADDRESSE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STAIE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
 PLICANI: Kleyn, Fatrick W.
PLICANI: M.Ore, Karen J.
TLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
MBER OF SEQUENCES: 59
MBER OF SEQUENCES: 59
MBERSTSTEF BODY OF PARTIES.
 LENGIH:
 NGTH: 1333 base pairs
PE: nucleic acid
RANDEDNESS: single
 14, Application US/08631200 c. 5646040
 7853-057
 0; Indels 0;
 Gaps
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Query Match 1.9%; So Best Local Similarity 100.0%; I Matches 16; Conservative 0;

Score 18; DB 1; ; Pred. No. 33; 0; Mismatches

0; Indels 0;

Gaps

Length 1338;

Application US/08829553 5817762

us-09-248-178-62.rni

```
; NAME/KEY: CDS; LOCATION: 1..855
US-08-829-553-14
 ADDRESSE: Pennie's Edmonds
STREET 1155 Avenue of the Americas
CITY: New York
STATE: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
HEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC COMPATER: DA
COMPUTER: DA HENTIL Release 11.0, Version #1.30
CURRENT APPLICATION DAMPS: 115/AD30. 553
 voery Match 194; Score 18; DB 1; Lengtl 1336; Best Local Similarity 100.0%; Prod. No. 33; Matches 18; Conservative 0; Mismatches 0; Indels
 APPLICATION NUMBER: US/08/829,553
FILING DATE: 28-MAR-1997
CLASSIFICATION: 510
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/631,200
FILING DATE: 12-APPL-1996
ATTORNEY/AGENT INFORMALION:
 FEATURE: UNKNOWN (genomic)
 TELEFAX: (212) 869-9741/886
TELEX: 66141 PENNIC
FROMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 1338 base pairs
 NAME: COTUZZI, LAUTA A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 785
LECOMMUNICATION INFORMATION:
CELEPHONE: (212) 790-9090
 LICANT: MODIE, KAICH JETH.

LE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS.

19 BER OF SEQUENCES: 59
RESPONDENCE ADDRESS:
CANT: Kleyn, Patrick W.

CANT: MOOTE, Karen J.

COMPOSITIONS FOR THE TREAIMENT AND

OF INVENTION: COMPOSITIONS FOR THE TREAIMENT AND

OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY

R OF SEQUENCES: 82
 1, Application US/08922267A
5861239
 28 MAR-1997
N: 530
 PENNIE
PENNIE
 7853-057
 INCLUDING OBESITY
```

cery match 19%; Score 18; DB 2; Length 1338; Best Local Similarity 100.0%; Pred No. 31; Matches 18; Conservative 0; Mismatches 0; Indels

Gaps

LF 41 .8-936-707A-14 .quence 14, App

4, Application US/08936707A 5871931

AL INFORMATION:
ALL INFORMATION:
PLICANT: KLEYN, FALLICK W.
PLICANT: HOORE, Karen J.
FLICANT: HOORE, FRINGING FOR THE TREATMENT AND
FLICANT: HOORE ADDRESS:
UMBER OF SEQUENCES: 60
UMBER OF SEQUENCES: FRINGINGS LLP

ADDRESSEE: Pennie & Edmonds LLP STREET: 1155 Avenue of the Americas CITY: New York STATE: New York COUNTRY: U.S.A. 21P: 10036-2711

: Floppy disk
IBM PC compatible

```
NAME: COPUZZI, LAUTA A.
REGISTRATION NUMER: 30,742
REFERENCE/COCKET NUMBER: 7653
TELEPHONE: (212) 750-5050
TELEPHONE: (212) 859-9741/8864
TELEPA: 66141 PENNIE
TELEPA: 66141 PENNIE
TELEPA: 66141 PENNIE
TELEPA: 1336 DASE PAIS
TELEX: 1336 DASE PAIS
TELEX: 1336 DASE PAIS
 MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release *1.0, Version *1.30
CURRENT APPLICATION DAIM:
 CCMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
HOLECULE TYPE: DNA
 CLASSIFICATION 530
PAPPLICATION NITA:
APPLICATION NUMBER: US 08/631,200
FILING DATE: 12-APR-1996
CLASSIFICATION: 530
 APPLICATION NUMBER: US/08/522,267A
FILING DATE: 2-SEP-1997
CLASSIFICATION: 530
IOR APPLICATION DATA:
APPLICATION UMBER: US/08/525,553
APPLICATION UMBER: US/08/525,553
FILING DATE: 28-MAR-1997
CLASSIFICATION: 540
CLASSIFICATION: 540
 ..re: nucleic acid
STRANDEDNESS: sir.
 ORNEY/AGENT INFORMATION:
 7853-085
```

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: Patentin Release #1.0, Version #1.30

APPLICATION DATA:
ATION NUMBER: US/08/936,707A
DATE: 24-SEP-1997

```
; NAME/KEY: CDS
; LOCATION: 1.855
US-08-936-707A-14
 Query Match 1.9%; S
Best Local Similarity 100.0%;
Matches 18; Conservative 0;
ATTORNEY/AGENT INFORMATION:
NAME: COCTUZZI, LAUTA M.
REGISTRATION NUMBER: 30.742
REGERENCE/DOCKET NUMBER: 7853-(
TELECPHONE: (212) 790-909
TELECPHONE: (212) 790-909
TELECPHONE: (211) 869-9741/8864
 1306 GGCAAAAAAAAAAAAA 1323
 -936-706A-14
 907 ggcaaaaaaaaaaaaa 924
 PRUTER READABLE FORM:
#BDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: BC-COS/MS-DOS
COMPUTER: PC-COS/MS-DOS
COMPANABE: PC-COS/MS-DOS
COMPANABE: PC-COMPUTER:
PC-CATION DATA:
LING DATE: 24-SEP-1997
LING DATE: 24-SEP-1997
 RANDEDNESS: si-
 , Application US/08936706A
5876919
 : Pennie & Edmonds LLP
1155 Avenue of the Americas
 24-SEP-1997
N: 530
 ON: COMPOSITIONS FOR THE TREATMENT AND ON: DIAGNOSIS OF BODY WEIGHT DISORGERS, INCLUDING OBESITY CES: 60
 n, Patrick W.
e, Karen J.
 single
 Laura .
 369-9741/8864
 7853-100
 853-055
 0; Indeis
 Length 1336;
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US-09-248-203-14
 : NAME/KEY: CLS
: LOCATION: 1..855
US-D8-936-706A-14
 best Local Similarity 100.0%; is matches 16; Conservative 0;
 TELEFAX: (212) 865-9741/8864
INTERNITO FOR SEO ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH CHARACTERISTICS:
TYPE: fucilate acid
STANDEDEESS: single
 MEDIUM TYPE: Floppy disk
COMPUTER: 15M PC Compatible
OPERATING SYSTEM: PC-TOSS/MS-L/OS
SOFTMARE: PATENTIATION DATA:
APPLICATION NUMBER: US/05/246,203
 CLASSIFICATION:
IOR APPLICATION DATA:
APPLICATION UNBER: US 08/936,707
FILING DATE: 24-SEP-1997
TORNEY/AGENT INFORMATION:
 ADDRESSEE:
 COPOLOGY: linear
 REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 78
RECOMMUNICATION INFORMATION:
 TLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND THE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS,
 DMESS: single
 Application US/09248203
 Pennie & Edmonds LLP
55 Avenue of the Americas
) 750-9090
869-9741/8864
 7853-160
 Length 1338;
 INCLUDING OBESITY
 0
 Gaps
```

u-dery Match . 198; Score 16; Db 3; Length 1338; Best Local Similarity 100.0%. Pred No. 3; Matches 16: Conservative 0; Mismatches 0; Indels

```
; NAME/KEY: CDS
; LOCATION: 1..855
US-09-406-071-14
 Ouery Match 1.94; Score 18; DB 4; Length 13:c; Best Local Similarity 100.04; Pred: No. 33; Matches 18; Conservative 0; Mismatches 0; Indels
 CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION UNBER: 08/936,707
APPLICATION UNBER: 08/936,707
FILLING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: COUTZI, Laura A.
REGISTRATION UNBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-10
TELEDOMUNICATION INFORMATION:
TELEPHONE: (212) 790-9909
TELEPHONE: (212) 869-9741/8864
 Lent No. 6207386

WERAL INFORMATION:
APPLICANT
 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC.compatible
OPERATING SYSTEM: PC.DOS/MS-DOS
SOFTWARE: Patentin Release 1.0, Version #1.30
CHERNT APPLICATION DATA:
 TELEX: 66141 PENNIE
FORMATION FOR SEQ ID NO: 14:
EDQUENCE CHARACTERISTICS:
LENGTH: 1338 base pairs
TYPE: nucleic acid
GRANDEDURGS: 6:11
 PPLICANT: Kleyn, Patrick W.

PPLICANT: KOOFE, Karen J.

"TILE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND "TILE OF INVENTION: DINGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY UMBER OF SEQUENCES: 60
IRPOBANTION:
IRPOBANTION: REP Compositions and Therapeutic and OP INVENTION: REP Compositions and Therapeutic and OP INVENTION: Diagnostic Uses Therefor top SEQUENCES: 16
 Application US/08955918C
268130
 ON NUMBER: US/09/406,071
 Pennie & Edmonds LLP
1155 Avenue of the Americas
 single
 7853-100
 0; Indels 0; Gaps
 0;
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```
CORRESSORDENCE ALDRESS:

ADDRESSEE: LAHIVE & COCKTIELD, LLP

STREET: 28 State Street

CITY: Boston

STATE: Massachusetts

21P: 02105-1815

COMPUTER: ENDABLE FORM:

MEDIUM TYPE: Floppy disk

MAPLICATION MARCH

FROM APPLICATION MARCH

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MAPLICATION MARCH

MARCH MARCHANTION:

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Ouery Match 1.9%; Score 18; DB 4; Length 1338;
Best Local Similarity 100.0%, Prod. No. 33; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps
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Page 19

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Title:
Perfect score:
Sequence:
 Minimum DB seq length: 0
Maximum DB seq length: 2000000000
 Database :
 Post-processing: Listing first 45 summaries
 Word size :
 Total number of hits satisfying chosen parameters:
 Searched:
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| SiDSi/gogdata/geneseq/geneseqn/NA1981_DAI:*
| SiDSi/gogdata/geneseq/geneseqn/NA1981_DAI:*
| SiDSi/gogdata/geneseqn/NA1981_DAI:*
| SiDSi/gogdata/geneseqn/geneseqn/NA1981_DAI:*
 930621 segs, 428662619 residues
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Gapop 60.0 , Gapext 60.0
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|-------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|
| and is derived by analysis of the total score distribution. | or equal to the score of the result being printed | mber of results predicted by chance to have a |

## SUMMARIES

| Sequence of human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AAN60009     | 7   | 8619            | 3.7      | 2.2   |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----|-----------------|----------|-------|--------------|
| Human secreted pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | KAY 14 L VA  | 1,4 | 1100            |          | , ,   | 111111       |
| numan secreted pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | 5   | 1106            | <b>,</b> | S     | A2 0100 10   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AAV34235     | 5   | 1075            | 3.7      | 2.2   |              |
| Human secreted pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VA 4 2 4 2 4 |     | 1000            |          |       | 0:33         |
| numan secreted pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100000       | ;;  | 1000            | ٠        | اد    | Or action to |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AAC96506     | 2   | 6.30            | ٠<br>7   | 22    | 7            |
| Cervical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AAH/U254     | 22  | 046             | 3.9      | 23    | ,            |
| numan cervical can                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1000000      | ;   | 1               |          | اد    | ν.<br>)      |
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| Human colorectal c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AA13/3/5     | 2   | 670             | 14.4     |       |              |
| manda corotecter c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | ,   | 600             | 73       |       | ,            |
| Himan coloractal c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AA 157697    | 22  | 7221            | 12.9     | 430   | 0            |
| coNA sequence of h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MAC / 944 /  | 1.2 | 1,70            |          |       |              |
| The Control of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the |              |     | 500             | 200      | 500   | J            |
| Data encoding human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AAX64213     | 20  | 590             | 100.0    | 590   | -            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ID           | DB  | Match Length DB | Match    | Score | 20           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |     |                 | Query    |       | Result       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |     |                 | ٠        |       |              |

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|-------------|---------------|----------|----------|--------------------|--------------------|----------|--------------------|--------------------|----------|--------------------|--------------------|----------|--------------------|----------|----------|-----------|----------|----------|----------|--------------------|--------------------|--------------------|----------|----------|-------------|------------|----------|--------------------|------------|----------|--------------------|--------------------|--------------------|
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| 3.<br>4     | ω             | 4        | 4        | L.                 | L.                 | 4        |                    | . 6                |          |                    |                    | 3.6      |                    |          | •        | 3.6       |          |          | 3.6      | 3.6                | 3.6                | •                  |          |          |             |            | 3.6      |                    |            |          |                    |                    | 3.7                |
| 278         | 242           | 115      | 79       | 51                 | 42                 | 40       | U.                 | 5830               | 5760     | 5306               | 1585               | 3133     | 2281               | 1994     | 1763     | 1624      | 1549     | 1547     | 1373     | 1373               | 1302               | 1302               | 1302     | 1279     | 1279        | 1164       | 1070     | 1049               | 959        | 679      | 67                 | 121162             | 446                |
| 20          | 21            | 21       | 19       | 21                 | 17                 | 20       | 20                 | 21                 | 6        | 20                 | 22                 | 16       | 20                 | 22       | 22       | 16        | 22       | 22       | 22       | 21                 | 21                 | 19                 | 17       | 22       | 21          | 21         | 20       | 21                 | 19         | 15       | 22                 | 21                 | 22                 |
| AA208301    | AAA31926      | AAA61347 | AAV26706 | AAA61354           | AAT17027           | AAX76360 | AAX76366           | AAC77811           | AAN50530 | AAX35681           | AAH19355           | AAQ90652 | AA233647 -         | AAH48294 | AAI58747 | AAQ85984  | AAD08465 | AAC91065 | AAD11689 | AAZ98076           | AAA07076           | AAV53733           | AAT17380 | AAH34582 | AAC78075    | AAC93427 · | AAX20466 | AAF22420           | AAV59132   | AAQ74410 | AAF50545           | AAC66548           | AAF97654           |
| lung tumour | t microsatell | ubstra   | novel se | Model mRNA #3 used | Human mitochondria |          | Pneumocystis carin | Human cancer assoc | Δ        | Renal cancer assoc | Porcine CD29 prote |          | Human breast tumou | σ        |          | sativa pi | secreted | ortholog | secreted | Human secreted pro | cDNA encoding memb | Nucelotide sequenc |          |          | cancer asso | secreted   | secreted | Human secreted pro | otide sequ | transfer | Probe 12 used in a | Human kinesin-like | Human neuroblastom |

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| ŭ X    | AAX64213 standard; cDNA; 590 BP.                                 |
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| Ä      | AAN64213;                                                        |
| X      |                                                                  |
| S      | Ob-SEP-1999 (first entry)                                        |
| XX     |                                                                  |
| 33     | DNA encoding human breast tumour protein immunogenic fragment.   |
| ×      |                                                                  |
| ×      | Breast tumour protein; immunogenic fragment; vaccine; detection; |
| X.     | breast cancer development; therapy; ss.                          |
| XX     |                                                                  |
| S      | Bund sapiens.                                                    |
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|   | Reed SG, Xu J; |   | (CURI-) CORIXA |    | -JUL-1998 | -DEC-1997 | 24-DEC-1997;  | -JUL-1998 |   | 22-110-1998;  |    | ve-JUL-1999. |   |
|   | •              |   | CORP.          |    | S-0118554 | S-0998255 | 97US-0998253. | 5-011862  |   | 96WO-US27416. |    |              |   |

WEI: 1595-405486/34.

PTXR New breast tumour protein genes used, in vaccines for immunotherapy, or for diagnosis of breast cancer

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 AAC79442 standard;
 Claim 3; Page 62; 70pp; English
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 Sequence 590 BP; 197 A; 82 C; 80 G; 231 T; 0 other;
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 61 ttaaayyototttytyaccatytttocotttytaycaataaaatyttttttacyaaaaot 120
 Caaagttttcctgtagttytgttagttctttgtcatgtctgtttttgtcttttgtcttagtctgtagaaccaa 480
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 caaagttttctgtagttqtqttagttcttttgtcatgtctgtcttttggctgaagaaccaa
 similarity 100.0%;
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requence 590 BP; 197 A; 82 C; 80 G; 231 T; 0 other;

Match 100.0%; Local Similarity 100.0%; cs 590; Conservative (

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Score 590: £8 21: Length 59 Pred. No. 2.7e-211; : Mismatches 6: Indels

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07-FEB-2001 (first entry)

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. an: Dreast tumour antigen; Cytostatic; Immunotherapy theast Cancer; Maccine; SS.
The present sequence was isolated from a breast tumour cDNA library. It a provided in a specification relating to compounds for immunotherapy and diagnosis of breast cancer, breast uniour antigens and the appropriate that encode them may be used in the production of a managenutical composition to be used in the treatment of breast cancer. Colferated composition to be used in the treatment of breast cancer. Colferated composition to be used in the treatment of breast cancer. Colferated composition to be used in the treatment of breast cancer. Colferated to polypeptides and polynucleotides may also be used to colder a vaccine.
 movel isolated polypeptide comprising an immunogenic portion rest cancer protein useful in the detection and treatment of the detection and treatment of
 ,-APR-1999;
_-JUL-1999;
 1-001-2000
 . i: 2000-638568/61.
 :.RI-) CORIXA CORP.
 th Sequence of human breast tumour prote 1v15b2
 .aim 4; Fage 79; 95pp; English.
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 -APR-2000; 2000WO-US09688
 λu J. billon
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 17-JAN-2001; 2001WO-USU1350
 Human; colorectal cancer; colorectal cancer antigen; gene therapy; ds.
 Human colorectal cancer antigen coding sequence SEQ ID NO:
 19-OCT-2001 (first entry)
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 2000US-012966
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THAMASCAUSTITCHAATAGAAGTGAGTTTGAACTGACCTTATTTATACTCTTTTTAAGT 71

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Overy Match 72.94; Score 430; DB 22; Lenyti, 7221; Best Local Similarity 100.04; Pred. No. 8 6e-152; Matches 430; Conservative 0; Mismatches 0; Indels 0;
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 Rosen
 The present invention provides the protein and coding sequences of a number of colorectal cancer antiques. These are shown in the AA157347-AA157349 and AAA136561. These can be used in the diagnosis, prevention and treatment of cancer of the colon and/or rectum. The present sequence is a colorectal cancer antiqen general sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIFO at fip.wipo.int/pub/published_pct_sequences.
 Isolated polypeptide for treating, preventing and/ or prognosing disorders related to the colon and rectum including colorectal cancers and also for testing and detection e.g. diagnosis.
 Sequence 7221 BP; 2552 A; 1315 C; 1263 G; 2091 T; 0 other;
 Disclosure; SEQ ID NO: 234; 522pp + Sequence Listing; English.
 WPI; 2001-457727/49.
 (HUMA-) HUMAN GENOME SCI INC
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 WY 2000; 2000US -0149317
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 Barash SC, Ruben SM;
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 Auman colorectal cancer antigen cDNA SEQ ID NO: 59
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7. ::31cc::tttccctgtgcctgtgtcaatccttcaagcttgctgaaatacatttgata 420
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 Claim 1; SEv ID NO: 59; 522pp + Sequence Listing; English
 isolated polypepride for treating, presenting and/ or prognosing disorders related to the colon and rectum including colorectal cancers and also for teating and detection e.g. diagnosis.
 WPI: 2001-457727/45.
P-PSDB: AAM38617.
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 (BUMA-) HUMAN GENOME SCI INC
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 Barası SC,
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If the present invention provides the protein and coding sequences of a number of colorectal cancer antigens. These are shown in AAISTS47-AAISTS41. These can be used in the disgress, prevention and treatment of cancer of the colon and/or rectum. The present sequence is a colorectal cancer antigen coding sequence of the invention.

The invention.

The sequence data for this patent did not from part of the printed specification, but was obtained in electronic format directly from WIPO at fig. VIPO.int/pub/published_pct_sequences.
Sequence 629 BP; 244 A; 94 C; 79 G; 212 T; U other;
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Query Match
Best Local S
Matches 427
 stch 72.4%; So
tal Similarity 100.0%; p
427; Conservative 0;
Score 427: DB 22: Length 62:
Pred. NO: 1.6e-150:
0: Mismatches 0: Indels
 Length 629;
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361 Edglecetetcoctytgoctgyscaaatetcaagtetgatgaaaatacatttgata 420
78 TTGTTCCTTTTCCCTGTGCCCGTGCAAGTCTCAAGCTGCGAAAATACAGTGGAA 

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 Query Match
Best Local S
Matches 23
 08-DEC-1999;
21-DEC-1999;
14-MAR-2000;
12-MAY-2000;
09-JUN-2000;
21-JUL-2000;
 The invention relates to movel genes (AAH69727-AAH7338)) associated with cervical cancer with cytostatic activity. The nucleic actids and encoded polypeptides are useful: to assess if a patient is affilicted with cervical cancer or has a pre-mailgnant condition; to monitor the progression of cervical cancer or a premailgnant condition in a patient; and to select and/or assess the efficacy of a compound or therapy for inhibiting cervical cancer in a patient. The nucleic acids may also be useful for gene therapy.
 Sequence 468 BP; 121 A; 80 C; 95 G; 168 T; 4 other;
 Claim 1; Page 120-121; 1051pp: English.
 New isolated nucleic acid for diagnosing and treating cervical cancer and for assessing and detecting compounds for treating the cancer .
 Schlegel R. Deeds J.
 Cervical cancer; cyrostatic; pre-malignant condition; gene therapy; ss
 Human cervical cancer marker nucleic acid 100
 WPI; 2001-375006/39.
 (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC
 08-DEC-2000; 2000WO-US33312
 14 -JUN-2001.
 WU200142467-A2
 Homo sapiens.
 19-SEP-2001 (first entry)
 AAH68826;
 AAH68826 standard; cDNA; 468 BP.
121 casagtt 427
|||||||
|18 CAAAGTT 12
 23;
 Similarity 100.0%; F
23; Conservative 0;
 99US-0169681.
99US-0171350.
2000US-0189315.
2000US-0203791.
2000US-0210600.
2000US-0220114.
 Berger A, Zhao X;
 Score 23: DB 22: Length 468:
Pred. No. 6.6:
0: Mismatches U: Indels
 ç
 Gaps
 0
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RESULT 6 AAH70254/c

RESULT 1 AAC\$6509 ID AAC\$6505 standard; cUNA; 638

Hudan secreted protein cDNA #10.

22-HEB-2001 (first entry)

Cytostatic immunosuppressive; nocircipcic neuroprotective; antiviral; antiallergic, hepatorropic; antibacteria; antifinamatory; antiviral; vulidrary; anticonvulsant; antibacterial; antifungal; antiparasitic; cardiant; gene therapy; carcer; immune disorder; cardiovascular disorder; cardiovascular disorder; cardiovascular disorder; secreted protein; ss.

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SÉB ACATATITAAAAAAAAAAAAAAAA 55

23:

0; Mismatches

Indels

0;

Gaps

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Query Match
Best Local S
Matches 23
 The invention relates to novel genes (AMHGB727-AMH7383) associated with cervical cancer with cytostatic activity. The nucleic acids and encoded polypeptides are useful: to assess if a patient is afflicted with cervical cancer or has a pre-malignant condition; to monitor the progression of cervical cancer or a premalignant condition in a patient; and to select and/or assess the efficacy of a compound or therapy for industring cervical cancer in a patient. The nucleic acids may also be useful for gene therapy.
 14 - MAR -
12 - MAY -
06 - JUN -
21 - JUL -
 Sequence 543 BP; 134 A; 103 C; 117 G; 169 T; 0 other;
 Claim 1; Page 343; 1051pp; English.
 08-12C-1999;
21-6EC-1999;
 08-DEC-2000: 2000WO-0533312
 New isolated nucleic acid for diagnosing and treating cervical cancer and for assessing and detecting compounds for treating the cancer \cdot
 Schlegel R. Deeds J.
 14-308-2001.
 Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss
 Human cervical cancer marker nucleic acid 1528.
 1s-SEP-2001 (first entry)
 AAn70254 standard; cDNA; 543
 WPI: 2001-375006/35.
 (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC
 AAH70254:
 #UZUU142467-A2.
 iumo sapiens.
3.9%;
Similarity 100.0%;
23: Conservative 0
 $90S-0169681.
$90S-0171350.
200CUS-0189315.
200CUS-0203791.
200CUS-0210600.
200CUS-0220114.
 Berger A.
 Score 23;
Pred. No.
 Zhac X;
 DB 22; Length 543;
. 6.5;
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 The invention relates to the isolation of genes AAC55900-C95947 encoling C4 th human secreted proteins AAB52104-B52105. The genes can be used to C2 generate fusion protein so y linking to the gene for the human C1 immunoglobulin G FC portion (SECIDI) for increasing the stability of the fusion protein as compared to the human protein only. The genes and C2 proteins are useful for preventing, ameliorating or treating and isolated from a range of human tissues disclosed in the specification. The chief calds proteins and prevention of: (a) cancer, e.g. breast C2 and overlan cancer, and other cancers of the addread gland, bone, bone and overlan cancer, and other cancers of the addread gland, bone, bone can discrete segments of the addread gland, bone, bone among the addread gland, bone, bone harmory the anabas, auctoimment throughtlist, diabetes mediting, C2 chin's collitis, (c) cardiovascular discretes such as mycoschial isrative collitis, (c) cardiovascular discretes such as mycoschial isrative collitis, (d) month calling; (e) neurological diseases e.g. cerebral anoxia and calling; (e) neurological diseases e.g. cerebral anoxia and calling in the province of the calling collination of the calling collination of the calling collination of the calling collination of the calling collination of the calling collination of the calling collination of the calling collination of the calling collination of the callination of th
 Query Match
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Matches 22
Human: secreted protein; fusion protein; gene therapy; grotein therapy; diagnosis; tissue; cancer; tumour; neurodesgenerative outstrder; benkaemia; developmental abnormality; foetal deficiency; blood; allergy; renal; ds; immune system; asthma; lymphocytic disease; brain; heracle; lymphoma; inflammation, ischaemic shock; Alzheimer's disease; restenosis; AIDS; cognitive disorder; schizophrenia; prostate; obesity; .secoclas; thymias; osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
 Human secreted protein gene 16 clone HMABH07.
 AAV34234;
 28-JAN-1999 (first entry)
 AAV34234 standard; DNA; 1053
 Sequence 638 BP; 174 A; 148 C; 147 G; 169 T; 0 other;
 Claim 1; Page 400; 478pp; English.
 New nucleic acid molecules encoding human secreted proteins, used preventing, treating or ameliorating a disorder, e.g. Alzhelmer's Parkinson's diseases and cancers
 WPI; 2000-656324/63.
P-PSDB; AAB52112.
 09-APR-1999; 99US-0128700.
20-JAN-2000; 2000US-0176930.
 Rosen CA,
 06-APR-2000; 2000WO-US08980
 19-OCT-2000.
 W0200061624-A1
 Homo sapiens.
 (HUMA-) HUMAN GENOME SCI INC
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 atch 3.7%; Sc
cal Similarity 100.0%; p
22; Conservative 0;
 Ruben SM,
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 Score 22; DB 21; Length c38; Pred. No. 15; 0; Mismatches 0; Indels
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 endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm
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 This sequence represents a nucleic acid-molecule which eccodes accreted human procein. The yene number, and the clone: It is derived from, are detailed in the descriptor line. The yene can be used to generate fusion proteins by linking to the yene to human immunoglobulin of protein as compared to the human protein only.

The invention relates to 70 novel genes and their fragments (nucleic and sequences: AAV31454 vV4476; amino acid sequences AAV3154 vV4476; amino acid sequences AAV3154 vV4476; amino acid sequences AAV354767; and the invention relates to 70 novel genes and their fragments (in medical conditions e.g. by protein or gene therapy or amelioralist, medical conditions e.g. by protein or yene therapy. Also, path. Joylcal conditions can be diagnosed by determining the amount or the new polynucleotides. Specific uses are described for each of the 70 the new polynucleotides. Specific uses are described for each of the 70 colynucleotides. Specific uses are described for each in the presence of mutations in the new polynucleotides. Specific uses are described for each of the 70 colynucleotides. Specific uses are described for each of the 70 colynucleotides. Specific uses are described for each of the 70 colynucleotides. Specific uses are described for each of the 70 colynucleotides. Specific uses are described for each of the 70 colynucleotides. Specific uses are described for each of the 70 colynucleotides.
 Query Match
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Matches 22
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 New isolated human genes and the secreted polypeptides they encode useful for disquests and treatment of e.g. cancers. https://doi.org/10.1001/j.cancers. https://doi.org/10.1001/j.cancers. https://doi.org/10.1001/j.cancers.
 Sequence
 Claim 1; Page 234; 447pp; English.
 WPI: 1998-609887/51.
P-PSDB: AAW75137.
 (- AMUH)
 3.7%; Soli Similarity 100.0%; F 22; Conservative 0;
 DP. Brewer LA. Carter KC. Duan R. Ebner K. Ferrie Am. Fischer CL. Graves KA. Greene HS. Lafleur DW. Li Y. Koore PA. Ni J. Olsen HS. A. Shi Y. Soppet DR. Young PE. Yu GL. Zeng C.
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 GENOME SCI INC.
 970S - 0056642

970S - 0056645

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970S - 0056647

970S - 005667

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970S - 005667

970S - 0056687

970S - 0056887

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 BP; 248 A;
 298 C; 295 G;
 Score 22; DB; Pred. No. 14; 0; Mismatches
 DB 19;
14;
 209 T; 3
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 Length 1.53;
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AAV1235 Standard; DNA; 1075 BP.

AAV1235:

28-JAN-1595 (first entry)

Hiller secreted protein gene.

Hiller: Secreted protein fusion protein; gene therapy; protein therapy; disjois; tissue; cencer; tumour; neurodesymerative disorder; leukaemia; developmental abnormality; foetal deficiency; blood; allergy; renal; ds; include system; astima; lymphocytic disease; brain; hepatic; lymphoma; infilementian; ischemic shock; Albeliener's disease; restemosis; AIDS; cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus; osteoprossis; arthiis; testis; lung; thyroiditis; thyroid; degesion; ensorine; metabolism; regulation; malabsorption; gastritis; neoplasm.
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ij

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970S -0047598
970S -0047519
970S -0047611
970S -0047611
970S -0047611
970S -0047613
970S -0047613
970S -0047613
970S -0047613
970S -0047613
970S -0047613
970S -0047613
970S -005663
970S -005663
970S -005663
970S -0056644
970S -0056645
970S -00566464
970S -0056664
970S -0056688
970S -0056888
970S -0056888
970S -0056889
970S -0056889
970S -0056889
970S -0056889
970S -0056899
 3
 5
 8888888888888
 Query Match
Best Local S
Matches 22
 11-SEP-1998
 06-MAR-1998;
 AAV34] ¢ ş
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PESSUIT 10
AAVJ4159
AXX AAVJ4159
DI 28-JAN
AXX AAVJ4159
DI 28-JAN
AXX AAVJ4159
DI 28-JAN
AXX AAVJ4159
DI 28-JAN
AXX AAVJ4159
DI 10-DI Human: secreted protein: fusion protein: gene therapy; protein therapy; diagnosis: tissue: cancer; tumour: neurodegenerative disorder; leakaemia; develor-ental abnormality; foetal deliciency; blood; allergy; renal; ds; fimune system; aschma; lymphocytic disease; brain; hepatic; lymphoma; inflarration; ischemen shock; Albeimer; s disease; restenosis; Albs; cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus; osteocporosis; arthritis; testis; lung; thyroiditis; thyroid disorder; schizophrenia; prostate; obesity; osteoclast; osteocporosis; arthritis; testis; lung; thyroiditis; thyroid; disorder; schizophrenia; metabolism; regulation; malabsorption; gastritis; neoplasm.
 MO9839445-A2
 Homo sapiens.
 acid sequences: AAV34154-V34276: amino acid sequences AAW75057-W75179) which are useful for preventino, treating or ameliorating medical conditions e.g. by protein or gene therapy. Also, pathological conditions can be diagnosed by determining the amount of the new polyproptides in a sample or by determining the presence of mutations in the new polymorleotides. Specific uses are described for each of the 70 polymorleotides, based on which tissues they are most highly expressed (see AAV34154 for described uses).
 Sequence 1075 BP: 251 A: 308 C: 302 G:
 28-JAN-1999
7. MAR 1997
7. MAR 1997
7. MAR 1997
7. MAR 1997
7. MAR 1997
7. MAR 1997
7. MAR 1997
7. MAR 1997
7. MAR 1997
1. APR th 3.7%; Scil Similarity 100.0%; F
 standard: DNA: 1105
 (first entry)
protein dene 16 clone HMABH07
 98WO-US04492
Score 22: DB 1: Pred. No. 14: 0: Mismatches
 ΒP
 212 T; 2 other;
 19;
 0;
 Length 1075:
 0
 Gaps
```

This sequence represents a nucleic acid molecule which encodes a secreted human protein. The game number, and the clone it is derived from, are detailed in the descriptor line. The gene can be used to generate fusion proteins by linking to the gene to a human impunoquebuline continuous descriptor increasing the stability of the fused protein as compared to the human protein only.

A STAN

New isolated human genes and the secreted polypeptides they encode - useful for diagnosts and treatment of concers, neurological disorders, immune diseases, inflammation or blood disorders

Beddarlk DP, Brewer LA, Carter KC, Duan R, Ebner R, Feng P, Ferrie AM, Fischer CL, Graves KA, Greene JM, Kyyw H, Lafleur DW, Li Y, Moore PA, Ni J, Olsen HS, Ruben SM, Shi Y, Soppet DR, Young PE, Yu GL, Zeng Z;

Endress GA:
Hu JS;
Rosen CA:

(HUMA-)

HUMAN

GENOME SCI INC

Claim 1; Page 234-235; 447pp; English.

```
This sequence represents a nucleic acid molecule which encodes a screteed himan protein. The game number, and the clone it is derived from, are detailed in the descriptor line. The game can be used to generate fusion proteins by linking to the game to human immunoglobulin CC Fc portion (e.g. ANV3145) for increasing the stability of the fused CP protein as compared to the human protein only.

CC The invention relates to 70 novel genes and their fragments (nucleic acid seguences: ANV31454 vy14276; amino acid sequences ANW3677-875179) which are useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. Also, pathological conditions e.g. by protein or gene therapy. Also, pathological conditions can be diagnosed by determining the amount of the new polynucleotides. Specific uses are described for each of the 70 the new polynucleotides. Specific uses are described for each of the 70 CC polynucleotides has based on which tissues they are most highly expressed in CC (see ANV31154 for described uses).
 Onery Match 3.7%; Score 22: DB 19; Length 1105; Best Local Similarity 100.0%; Pred, No. 14; Matches 22: Conservative 0; Mismatches 0: Indels
 New isolated human genes and the secreted polyreptides they encode
- useful for diagnosts and treatment of e.g. cancers, neurological
disorders, immune diseases, inflammation or blood disorders
 polyA_signal
 misc_feature
 Sequence of human insulin receptor (hIR) precursor
 sig_peptide
 Homo sapiens.
 Therapy: diagnosis: insulin: ss.
 30-JUL-1991 (first entry)
 AAN50009 standard: cDNA: 5198
 Sequence 1105 BP; 259 A; 314 C; 296 G; 226 T; 10 other;
 Claim 1; Page 175: 447pp; English.
 WPI; 1998-509887/51.
P-PSDB; AAW75072.
 Kyaw H, Lafleur DW, Li Y, Moore PA, Ni J, Olsen HS, Rosen CA:
Puben SM, Shi Y, Soppet DR. Young PE, Yu GL, Zeng Z;
/*tog. c beta subunit 278.2289
/*tog. d foote- *precursor processing site*
5160.5155
/*tag. d foote- *precursor processing site*
 /*tag= b
/product=
2290..4150
 /*tag* a
121..2289
 Location/Qualifiers
49..120
 ct- alpha subunit
1150
 0
 Gaps
```

```
PESULT 12
AAF97854
 Ouery Match 3.7%; Score 22; DB 7; Best Local Similarity 100.0%; Pred. No. 11; Matches 22; Conservative 0; Mismatches
 31-AUG-1999; 99JP-0245962.
09-MAY-2000; 2000JP-0136266.
 Human 1936 homozygosity deletion domain from the 35-position of first chromesome short arm in human neurroblastoma cell linear applicable e.g. in gene diagnosis of tumors as well as in developing anti-cancer drugs
 Human; chromosome 1; 1935; neuroblastoma cell line; NB·1; anticancer; tumour suppressor; human 1p36 homozygosity delation domain; tumour; diagnosis; ds.
 A mutant IR is claimed which may have a mutated alpha-chain, esp. at the precursor processing site. The beta-chain may be mutated, e.g. by deletion of the transmembram sequence: the tyrosine kinase activity may be inactivated. Fig. 5 is a comparison of oncogene and human EGF receptor sequences with that of HIR in the cytoplasmic domain of the insulin receptor beta subunit.
 WPI; 2001-226686/23.
 (HISM) HISAMITSU PHARM CO LTD (CHIB-) CHIBA PREFECTURE.
 31-AUG-2000: 2000WO-JP05930
 08-MAR-2001.
 Human neuroblastoma cell line MB-1 lp36 nucleotide sequence SEQ ID NO:59
 AAF97854;
 WO200116311-A1.
 31-MAY-2001 (first entry)
 AAF97854 standard; DNA; 34488 BP
 Sequence 5198 BP; 1237 A: 1353 C: 1390 G: 1208 T: 0 other:
 Disclosure; Fig 1B; 52pp; English
 New DNA encoding insulin receptor or its fragments - is synthesis of receptor and mutants for therapeutic and
 Bell JR, Ulrich A, Pamachandran
 (GETH) GENENTECH INC
 10-FEB-1986;
 85US-0700776
 85EP-0300894
 0: Indels
 Length 5198:
 used for
diagnostic
 0:
 Gaps
 C)
 9
```

G

Ac

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3
 SX5555555555555555XS
 Query Match
Best Local S
Matches 22
 The present invention describes the coling and protein sequences of the human kinesin-like protein iRRLP. It is thought that the protein could be involved in neurological disorders, infertility, spontaneous abortion, neonatal chromosome disorders, aneuploidy and cancers. This is due to its function in the movement of microtubules. The protein shows homology to the murine KIFIA and KIFIB proteins. The sequences disclosed in the invention can be used in the isolation of similar human proteins and in vector production. In addition, the biallelic markers shown can be used in disease diagnosis and population studies.
 Claim 1: Page 143-175: 199pp: English.
 An isolated or purified human kinesin-like protein (HKLP) encoding polynucleotide used to detect HKLP polynucleotides in a sample comprises a contiguous span of at least 12 nucleotides.
 Human: kinosin-like protein: HKLP: KIF1: cell division: cancer: intracellular transport: neurological disorder; infertility: biallelle marker: spontaneous abortion: neonatal chromosome disorder: aneuploidy: ds.
 WPI: 2000-565242/64.
 Bouqueleret L. Dufaure-Gare 1, Grel
 20-APR-1999: 9905-0130217.
 20-APR-2000; 2000Wh-1B09552
 25-001-2000
 ₩7200053375-A1.
 Homo sapiens.
 Human kinesin-like protein HKLP coding sequence contig SEQ ID NO:
 The present invention describes a homogygosity deletion domain co-existing in the 35-position of the first chromosome short arm (1p36) in human neuroblastoma. Also described are base sequences from the 1p36 position of human neuroblastoma. Also described are base sequences (RR-1 and MASS-NB-SCH-1), which are tumour suppressor genes in human neuroblastoma. The genes are tumour suppressor genes, base sequence data of which are applicable as fumour markers and respents in studying mechanism of tumour body (ormation, and gene diagnosts of tumours as well as in developing anti-cancer drugs. AMS7787 to AMS78787 appresent PCR primers used in the exemplification of the present invention, and AMS9830 to AMS9787 represent sequences given in the exemplification of the present invention.
 19-FEB-2001 (first entry)
 AAC56548 standard; DNA; 121152 pp
 (GEST) GENSET
 Sequence 34488 BP: 9554 A; 6717 C: 6924 G; 11191 T: 0 other:
 Example B: Page 104-118: 225pp: Japanese.
 i i
 ch 3.7%; Score 22; DB l Similarity 100.0%; Fred. No. 8.1 22; Conservative 0; Mismatches
 DB 22;
 0:
 Length 34488;
 indels
 0:
 Gaps
 0;
```

Sequence 121162 BP; 33272 A; 24108 C; 25842 G; 37919 T; 21 other:

```
RESULT 14
AAF60545
RESULT 15
AAQ74410
ID AAQ744
XX
 overy Match 3.7%; Score 22: DB 21: Length 121152:
Best Local Similarity 100.0%; Pred No. 7.5;
Matches 22: Conservative 0: Mismatches 0: Indels 0:
 Query Match 3.6%; So
Best Local Similarity 100.0%; P
Matches 21; Conservative 0;
 AAQ74410 standard; DNA; 679 BP
 Detecting and quantitating analyte polynucleotide in a sample, by co-amplifying analyte polynucleotide with predetermined arount of pseudo target, producing amplification products and quantifying analyte amplicons
 The present invention relates to a method for quantifying analyte polynucleotides (AP). The method comprises combining a test sample of AP with predetermined amount of a pseudo target (PI) and co-amplifying, to produce a collection of amplification products including an analyte amplicon if the sample contained AP and PI amplicon. The analyte amplicon is quantified without reference to the amount of PI amplicon and related to AP in the sample. The present sequence is a probe used in the rethod of the present invention.
 WPI; 2001-182804/18.
 Nunomura K;
 (GENP-) GEN-PROBE INC.
 23-JUL-1999; 99US-0145432
 21-JUL-2000: 2000WO-US20034.
 01-FEB-2001.
 WO200107661-A2.
 Human immunodeficiency virus type 1.
 Probe; HIV; ss.
 Probe #2 used in a method for quantifying analyte polynucleotides
 27-APR-2001 (first entry)
 AAF60545;
 AAF60545 standard: DNA; 57 BP
 Sequence 67 BP; 36 A; 9 C; 5 G; 17 T; 0 other;
 Example 3; Page 39; 78pp; English
 Score 21; DB 22; Length 67; Pred. No. 48; 0; Mismatches 0; Indels
 9:
 Saps
 0:
```

SXCCCCCCCXXXXPTTXXXX

13-FEB-1998:

```
RESULT 15
AAV59132
ID AAV591
 overy match
Best Local Similarity 100.0%; Prod. No. 35;
Matches 21: Conservative 0; Mismatches 0: Indels
 Lipid transfer protein coding sequence.
 06-SEP-1994.
 JP06247999-A.
 Spinacia oleracea L.
 Lipid transfer protein; membrane; liposome; drug carrier; ss
 12-JUN-1995 (first entry)
 AA074410:
 The lipid transfer protein encoded by this sequence may be used to alter the composition of lipid membranes. The lipid transfer protein may also be used to create new liposomes for use as divig carriers and new plants which have cells with altered membranes.
 WPI: 1994-322194/40.
P-PSDB: AAR63755.
 24-FEB-1993; 93JP-0035821
 Serine protease: regulation: cell activity: viability: HELA2: ATC2: BCOM3; testisin: fertility; suppressor; testicular gorm cell cancer; seminoma; testis-specific expression; antitumour; sperm development infertility: mouse: ss.
 Sequence 679 BP; 167 A; 134 C; 155 G; 223 T; 0 other;
 Claim 2; Page 2: 10pp: Japanese.
 New lipid transfer protein and its gene - useful for changing the composition of lipid membranes
 (NISB) JAPAN TOBACCO INC
 24-FEB-1993: 93JP-0035821
 07-JAN-1999 (first entry)
 AAV59132 standard; DNA: 959
 20-AUG-1998.
 WD9836054-A1
 Hus sp.
 Nucleotide sequence of murine HELA2
 AAV59132;
98WO-AU00085
 Location/Qualifiers
2..859
 /*tag* a
/product= HELA2
 яP
 0
 Gaps
 0
```

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PESUIT 17
AAF22420/C
XX
ID AAF224
XX
AFC AAF224
XX
AFC AAF224
XX
XX
Human
XX
Human
KW Human
KW Cerebu
KW Cerebu
KW Cerebu
KW Cerebu
KW Theuma
CE
KW Theuma
COCULAR
KW ACCULAR
KW
 The present sequence represents the nucleotide sequence of murica HELA2.

GRAMAN HELA2 was isolated from HeLA cells. HELA2 has high homology to cerime proteases. The protein is involved in or associated with regulation of cell activity and/or viability. Administration of cesticular germ cell cancers (seminoma) and is also expressed in some concentration of activity and/or process. Prostate and overly, so is a market/potential therapeutic target for cancer. The promoter/from the e.g. for gene therapy or modulation of fertility. Durys that block activity of HELA2 should have anithmour activity (other than in testis recombinant HELA2 should stop growth of turours and normalise sperm development (eliminating the need for orchidectomy). Infertility.
 Ouery Match 3.6%; Score 21; DB 19; Best Local Similarity 100.0%; Pred. No. 34; Matches 21; Conservative 0; Mismatches 0
 Human, secreted protein, diagnosis, immunosuppressive, antiarthritic:
antinheumatic, antiproliferative, cytostutic; andiant, vascinpic,
cerebroprotective; nootopic; neuroprotective; antibacteria; viricide;
fungicide; ophthalmological, gene therapy, antibacteria; viricide;
rheumatoid arthritis, hyperproliferative disorder; cardiac arrest;
cardiovascular disorder; cerebrovascular disorder; cerebral ischaenia;
anglogenesis; nervous system disorder; Albelmer's disease; infection;
ocular disorder; corneal infection; wound healing; svin aging;
cod additive; preservative; ss
 06-APR-2000; 2000WO-US03071.
 Human secreted protein gene 48 SEO ID NO:58.
 AAF22420;
 AAF22420 standard; cDNA; 1049 BP
 25-MAR-2001 (first entry)
 Sequence 959 BP; 225 A: 262 C: 241 G; 231 T; 0 other:
 Example 14: Fig 18A: 157pp; English
 New serine protease(s) and kinase involved in regulating cell activity and viability - particularly the testis sperific protease HELA7 used for modulation of fertility and as tumour suppressor
 WPI; 1998-480768/41.
P-PSDB; AAW77301.
 Antalis TM, Hooper JD;
 (AMRA-) AMRAD OPERATIONS PTY LTD.
 18-NOV-1997; 97AU-0000422.
13-FEB-1997; 97AU-0005101.
 0: Indels
 Length 959;
 0:
 Gaps
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AR722J3 to AR724Z1 encode the human secreted proteins given in AAB5334 to AAB53183. AAB53183 to AAB53231 represent more human secreted proteins and polypeptides homologous to them. Human secreted proteins have carried by a protein secreted protein secreted proteins have continued by the secreted protein secreted proteins have carried by the secreted proteins have carried by the secreted proteins have carried by the secreted proteins can be carried by the secreted proteins can be finglished and ophthalmological. The polymuclectides and proteins can be carried by the secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete proteins of a secrete protein of a secrete protein proteins of the breast of liver, cardious secrete proteins of a secrete protein proteins of the breast of liver, cardious secrete proteins of a secrete protein proteins of the breast of liver, cardious secrete proteins of a secrete protein proteins of the breast of liver, cardious secrete proteins of a secrete protein proteins of the breast of liver, cardious secrete proteins of a secrete proteins of the breast of liver, cardious secrete proteins of a secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins of the breast of liver, cardious secrete proteins and secrete proteins of the breast of liver and liver pr
 Covery Match 2.51: Conservative 0: Mismatches 0: Indels Matches 21: Conservative 0: Mismatches 0: Indels
 Human: secreted protein: (usion protein: oene therapy; protein therapy; diagnosis: tissue; cancer; tumour; neurodegenerative disorder; leukaemia; developenetal abnormality; foetal deficiency; blood; alleryy; renal; ds; nemune system, asthma; lymphocytic disease; brain; heptic; lymphoma; inflammalion; shotkamic shock; Albeiner; s disease; restenosis; Albe; cognitive disorder; schizophrenia; prostate; obesity; osteoclast; tlymus; osteoporasis; arbhritis; lestis; lung; thyrodditis; thyroid digestion; endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
 Human secreted protein gene 75.
 04-MAY-1999 (first entry)
 AAX20485 standard; DNA; 1070
 Sequence 1049 BP; 305 A; 242 C; 212 G; 288 T; 2 other;
 Claim 1; Page 458; 533pp; English.
 isolated nucleic acid molecule encoding a human secreted protein used in preventing, treating or ameliorating a medical condition
 Puben SM. Komatsoulis G;
 09-APR-1999; 99US-0128594.
20-JAN-2000: 2000US-0175931.
 (ROSE/) POSEN C A.
 0.
 Gaps
 , 5
```

AAC93427 standard:

Human secreted protein gene 6 16-FEB-2001 (first entry)

SEQ ID NO:16.

Human: secreted protein: immunosuppressive; antiarthritic; antirheumatic; antipretative; cytostalic; cardiant; vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; fungicide; opthalmalogical; vulnerary; autoimmune disease; rheumatoid arthritis; hyperproliferative disorders; cancer; cardiovascular disorder; cardiac arrest; cerebrovascular disorder; nervous system disorder; Alzheimer's disease; ocular disorder; wound healing; skin aqing; ss.

```
Ouery Match 3.5%; Strest Local Similarity 100.0%; Strest Local Similarity 0.00%; Matches 21; Conservative 0;
 Carter KC, E
10 - MIC - 1997

10 - JUL - 1997

10 - JUL - 1997

10 - JUL - 1997

10 - JUL - 1997

10 - JUL - 1997

10 - JUL - 1997

10 - JUL - 1997

10 - JUL - 1997

10 - JUL - 1997

10 - JUL - 1997

11 - MIC - 1997

11 - MIC - 1997

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11 - MIC - 1997

11 - MIC - 1997

11 - MIC - 1997

11 - MIC - 1997

11 - MIC - 1997

11 - MIC - 1997
 Sequence 1070 BP; 298 A; 258 C; 198 G; 313 T; 3 other;
 Claim 1; Page 245; 312pp; English.
 New isolated human genes and the secreted polypeptides they encode useful for diagnosis and treatment of e.g. centers, neurological disorders, immune diseases, inflammation or blood disorders
 WPI: 1999-153691/13.
P-PSDB: AAT00331.
 Zeng Z;
 29-JUL-1998;
 W09906423-A1
 11-FEB-1999
 (HUMA-) HUMAN GENONE SCI
 sapiens
 Endress GA,
re PA, Rosen
 970S-0055710
970S-0054211
970S-0054211
970S-0054213
970S-0054213
970S-0054214
970S-005598
970S-005598
970S-005598
970S-005598
970S-005598
970S-005598
970S-0055972
970S-0055543
970S-0055543
970S-0055543
970S-0055543
970S-0055543
 -0M86
 US15949
 Fan
CA,
 Score 21: DB
; Pred. No. 33;
0: Mismatches
 P. Feng P. Kyaw H.
Puben SM. Shi Y. Wei
 DB 20;
33;
 0;
 Length 1070:
 Indels
 Lafleur
ei Y:
 DW:
 0:
 Saps
 0
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Rosen CA, Ruten SM, Komatsoulis G;

(HUMA-) HUMAN GENOME SCI INC (ROSE/) ROSEN C A.

09-APR-1999: 99US-0128701 20-JAN-2000: 2000US-0177165 05-APR-2000; 2000WO-US08981 19-OCT-2000 WD200061625-A1 Homo sapiens.

```
CC human secreted proteins AAR53724 - AAR53777. Sequences AAR53778 -
CC human secreted proteins AAR53774 - AAR53777. Sequences AAR53778 -
CC AAR51825 represent alternative polypeptides encoded by the genes and
amino acid sequences to which they are homologous. The genes and proteins
cc have activities dependent on the tissues and cells in which they are
expressed. Examples of their activities include immuosuppressive;
cc antiarthritic; antirrhematic; antiroliferative; cytostatic; cardiant;
visotropic; cerebroprotective; mostropic; neuroprotective; antibacterial;
cc vincide; funcicide; opthalmalogical; and vulnerary. The secreted
cc proteins, polymuciective; mostropic; neuroprotective; antibacterial;
cc vincide; funcicide; opthalmalogical; and vulnerary. The secreted
cc proteins, polymuciective; mostropic; neuroprotective; antibacterial;
cc vincide; funcicide; opthalmalogical; and vulnerary. The secreted
cc proteins, polymuciective; mostropis; and agonists may be useful in
cc autolomune diseases e.g. rhematoid arthritis, hyperproliferative
cc autolomune diseases e.g. rhematoid arthritis, hyperproliferative
cc discretes e.g. neoplasms of the breast or liver, cardiovascular disorders
cc e.g. cardiac artest; cerebrovascular disorders e.g. cerebral ischaemia,
can disorders e.g. neoplasms of the polypeptides can also be used to aid wound
can be compared infection. The polypeptides can also be used to aid wound
cc healing and epithelial cell proliferation, to prevent skin aging due to
combonent of primary tissues to regenerate tissues and in chemotaxis. The
cc polypeptides can also be used to a food additive or preservative to
carbohydrate. vitamins, minerals, confactors and other nutritional
cc components. Oligonucleotide AAC3413 - AAC3421 and peptide AAB51723 are
used in the isolation and characterisation of the proteins and
cc polypucleotides of the invention.
Overy Match
Best Local Similarity
 Sequence 1154
 Claim 1: Page 413; 500pp; English
 New nucleic acid molecules encoding 48 human secreted proteins for
diagnosing, preventing, treating or ameliorating medical conditions
used as food additives or preservatives
 WPI: 2000-619225/59.
P-PSDB: AAB51730.
 BP:
 284 A: 269 C; 310 G;
3.5%;
100.0%;
 Score 21:
Pred. No.
 1 E E
 301 T: 0 other
 21: Length 1164
 and
```

g die George George George George George

:3

```
AAC77607 to AAC78448 encode the human cancer associated proteins given the AAA3398 to AAB4429. The proteins can have activities based on the tissues and cells the genes are expressed in Exemple of activities Cantidabetic; antist the genes are expressed in Exemple of activities cantidabetic; antiststmatic; antistimetic; antisterial; cantidabetic; antiststmatic; antistimetic; antistimetic; antistimetic; antistimetic; antistimetic; conditions of the projec; vasotropic; antipactive; cardiant; thrombolytic; capallant; conditions and polypeptides can be used for perentian, treating or antistrating medical conditions and diagnosing pathological conditions. Ce polypuctedides, antipactics, againsts and antagonists from the present invention may be used to treat immune disorders by activating conditions and interpretation of the present invention may be used to treat immune disorders by activating conditions, allergic reactions, graft versus host disease and organ of disorders, allergic reactions, graft versus host disease and organ of the projection, modulate themostatic or thrombolytic activity, modulate conditions, and antagonists may be also be used in drug screens. AAC78459 to AAC78457 and AAR4420 represent sequences used in the exemplification of the present invention.
 밁
 Matches
 Ruman; cancer associated gene: cancer antigen; detection; cencer; diagnosis; cytostatic; proliferative; vulnetary; immunordulator; antidiabetic; antiasthmatic; antirheumatic; antiarthritic; antiviral; antinilammatory; antityloid; antirheumatic; antiarthritic; antiviral; dermatological; neuroprotective; thromblyric; coagulant; noctropic; antipsoriatic; antianglogenic; gene therapy; inflammation; immune disorder; haematopojetic cell disorder; actoimmune disorder; antipsoriatic; cell disorder; actoimmune disorder; haematopojetic cell disorder; actoimmune disorder; haematopojetic cell disorder; actoimmune disorder; haematopojetic cell disorder; antipsoriatic; thromblyric; cardiovascular disorder; infection; neurological disease; drug screening; ss.
 Claim 1; Page 1008: 2352pp; English.
 Novel isolated nucleic acids comprising sequences encoding reptides useful for treating or diagnosing e.g. cancer \cdot
 WPI; 2000-587533/55
P-PSDB; AAB43870.
 (HUMA-) HUMAN GENOME SCI INC
 12-MAR-1999; 99US-0124270.
 08-MAR-2000; 2000WO-US05882.
 WO200055350-A1.
 Homo sapiens.
 08-FEB-2001 (first entry)
 AAC78079 standard;
 Human cancer associated gene sequence SEQ ID NO:473
 20
 Conservative
 0;
 Mismatches
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 Indels
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Sequence 1279 BP; 421 A; 225 C; 293

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337 T: 2

COMPTY MYCH 13.54: Score 21: DB 22: Length 1279; Best LCT11 Similarity 100.01: Prod. No. 12: Patches 21: Conservative C: MismatThes 0: Indels Patches 21: Conservative C: MismatThes 0: Indels

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ARH37:13 to AAH37195 and AAG73514 to AAG77788 represent human colon cannot associated nucleic acid molecules (N) and proteins (P), where the indefins are collectively known as colon cancer antiques. The colon cancer antiques The colon cancer antiques The colon cancer antiques The colon cancer antiques there is an are represented. The colon cancer antiques the colon cancer antiques the colon cancer antiques the colon cancer antiques the colon cancer antiques the colon cancer antiques the colon cancer antiques the colon cancer associated and cancer associated and cancer associated and cancer associated and cancer associated and cancer associated and cancer associated and cancer associated ps. Colon cancer associated ps. Colon cancer associated ps. Colon cancer associated ps. Colon cancer associated ps. Colon cancer associated ps. Colon cancer associated ps. Colon cancer associated ps. Colon cancer associated ps. Colon cancer associated ps. Colon cancer cancer cancer associated ps. Colon cancer can
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 EESULT 21
AAH34592
ID AAH34582 standard: cDNA: 1279
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Best Local S
Matches 21
 present invention.
N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEC 'n NO:1027 to 1052. 7921 and 7922.
 Claim 1; Page 3271; 9803FF; English.
 Nucloic acids encoding 4277 human colon cancer-associated polypeptides useful for preventing, diagnosing and/or treating colorectal cancers -
 WPI: 2001-235357/24.
P-PSINA: AAG75177.
Sequince 1279 BP; 421 A; 225 C; 294 G; 337 T; 1 other;
 Ruber SM. Barash SC. Birse CE.
 (HUMA-) HUMAN GENOME SCI INC
 29-SFP-1999: 99US-0157137
03-W-W-1999: 99US-0163280
 28-SEP-2000: 2000WO-US2K524
 05-AFR-2001
 Human: colon cancer: colon cancer antigen; diagnosis; detection; colorectal carcinoma: chromosome 14: ss.
 03-SEP-2001 (first entry)
 WO201122920-A2
 Homo sapiens.
 Human colon cancer antigen encoding cDNA SEQ ID NO:1664.
 AAH34582;
 atch 3.6%; cal Similarity 100.0%; 21: Conservative (
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 Score 21; DB 21; Length 1279;
Pred. No. 32;
0; Mismatches 0; Indels
 0
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 Owery Match 3.5%; Score 21; DB 17; Length 1372;
Best Local Similarity 100.0%; Pred No. 32;
Matches 21; Conservative 0; Mismatches 0; Indels
The present sequence encodes an endothelial cell protein C/activated protein C receptor (EPCP). a type I transmembrane alycoprovein. The protein binds with high affinity to both protein C (which plays a major role in blood cospilation) and activated protein C (Yd-30 nH) and is calcium dependent. It is a member of the COLYMHC syperfamily and has a role in regulating the inflammatory response.
 DNA encoding endothelial cell protein receptor
 27-SEP-1996 (first entry)
 EPCR: endothelial cell protein C receptor: activated protein C:
blood coagulation: inflammatory response; inhibit; ss.
 Claim 1; Page 37-38; 58pp; English.
 Isolated endothelial cell protein C/activated protein C receptor . used to inhibit inflammatory responses, screen for cpds. which alter receptor binding and, by blocking receptor binding, enhance inflammatory response
 Esmon CT, Fukudome K;
 (OKLA-) OKLAHOMA MEDICAL RES FOUND.
 12-AUG-1994; 94US-0289599
 09-AUG-1995;
 22-FEB-1996.
 W09505303-A1
 polyA_signal
 mat_peptide
 sig_peptide
 Homo sapiens
 AAT17380 standard; cDNA: 1302
 Sequence 1302 BP; 340 A; 325 C; 341 G; 296 T; 0 other;
 WPI; 1996-139699/14.
P-PSDB; AAR81453.
 Location/Ovalifiers
25..741
/*tag- andothelial_cell_protein_receptor
/product- endothelial_cell_protein_receptor
25..69
/*tag- b
/*tag- b
/*tag- c
/*tag- c
/*tag- d
 95WO-US09635
 1242
 590
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 Gaps
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ò
 CC receptor, used in the method of the human endothelial cell protein CC receptor, used in the method of the invention where endothelial protein CC crecoptors (FCC) is used in diagnosis of inflammatory and compulation CC states and ligorders associated with domage to endothelium and large blood vessel disease. ECPs is involved in the requilation of a host cresponse to inflammation. The protein is one of the last components to be activated in the compulation system, and is thought to control C compulation and inflammation. Activates protein C. The protein C pathway (in apparently only involved in large blood vessels, not capillaries, and so is a-ivated with for major vascular conditions, and the cindenses of the receptor in the conditions stated makes it component. The assay is used for the diagnosis or complicative such as autoproment. The assay is used for the diagnosis or complicative such as autoproment diseases, pre-eclampsia, discless, wascular component. The assay is used for the diagnosis or complicative such as autoproment diseases, pre-eclampsia, discless, wascular component. The assay is used for the diagnosis. Creations is not any order of the complicative such as autoproment of the same pre-eclampsia, discless, wascular component. The assay is used for the diagnosis.
 Query Match 3.5%: Score 21: DB 19: Length 1302: Best Local Sirilarity 100.0%: Fred. No. 32: Matches 21: Conservative 0: Mismatches 0: Indels
Human; endo helial cell protein receptor; inflammation; regulation; endohelial protein C receptor, EPCR, coagulation state; diabetes; major vascular condition; autoimmune disease; pre-colampsia: cardiopulariary pypass unstable angina; restemosis; angiopiasty; kidney disease; liver disease; ss.
 AAV53733 standard: cDNA: 1302 BP
 Sequence 13 2 BP: 340 A: 325 C: 341 G: 296 T: 0 other:
 Disclosure 'olumns 21-22; 23pp; English.
 immuno-based detection of protein C receptor - useful in the diagnosis conditional manatory and coaquilation states and disorders associated which damage to endothelium and large blood vessel disease
 WPI; 1998-5 5545/43.
P-PSDB: AAW"4545.
 Esmon CT, Furosawa S, Stearns-kurosawa
 (OKLA-) OKITHOMA MEDICAL RES FOUND.
 27 - JUN-199" -
 09-SEP-1999
 US5804392-A
 Homo sapiers
 Nucelotide sequence of the endothelial cell protein receptor.
 20-NOV-1998 (first entry)
 97US-0884203
 Location/Qualifiers
25..741
/*tag= a
/product= "ECFR protein"
 DJ:
 0.
 0;
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RESULT 24
AAA07076
ID AAA070
CC human endothelial protein C receptor (EPCP). The invention relates to a modified form of EPCR, in which the C-terminal Cys of the membrane combined form as to paintoylated, or is otherwise replaced by a different camino acid; to a soluble splice variant of EPCR, which lacks a transmembrane domain; and to a EPCR in which the transmembrane domain of the membrane round form has been removed by proteolytic cleavage. Splicing of exon III to exon IV (which encodes the transmembrane domain) the EPCR RNA transcript results in an MRNA encoding the soluble form cludes intron III sequences. The intron III sequence includes an includes intron III sequences. The intron III sequence includes an inframe termination codon: translation of intron III-containing mRNA cresults in an EPCR protein with a variant sequence (ANR117) inmediately CC C-terminal of glycine 201. EPCR binds both protein C and its activated of form, activated protein C (APC), with similar affinity in the presence of calcium. The membrane-bound form facilitates protein C complex on cell surfaces. In contrast, the soluble form inhibits protein C complex on cell surfaces. In contrast, the soluble form inhibits protein C cartivation by competing with membrane-bound EPCR for protein C. The calcium inhibits protein C in the regulation of blood coagulation. Pattents deficient in protein C in the regulation of blood coagulation. Pattents deficient in protein C cusually exhibit life-threatening thrombotic complications in infancy.
 Endothelial protein C receptor; EPCR; membrane bound: splice variant: activated protein C: APC acquiation; infiammation; regulation: endothelial cell: autoimmune disease: vascular damage; ss.
 Claim 4; Columns 21-22; 24pp; English.
 Modified endothelial protein C receptor, useful as diagnostic marker of e.g. Inflammation or autoimmune diseases, is a soluble or alternatively spliced form of the receptor.
 WPI; 2000-246200/21.
P-PSDB; AAY81476.
 Stearns-Kurosawa DJ, Kurosawa S, Esmon
 27-JUN-1997;
 US6037450-A
 misc_feature
 sig_peptide
 Homo sapiens.
 03-JUL-2000 (first
 AAA07076;
 AAA07076 standard; cDNA; 1302
 20-MAY-1998;
 mat_peptide
 cDNA encoding membrane-bound human endothelial protein C receptor (EPCR)
 (OKLA-) OKLAHOMA MEDICAL RES FOUND.
 9705-0884203.
 9805-0082021.
 Location/Qualifiers
25,74

/*tsg- a
/*roduct- *Human membrane-bound EPCR splice variant*
25.69
25.69
7*tsg- b
7*tsg- b
7*tsg- c
/*product- *Mature human membrane-bound EPCP*
627.628
 /*tag- d
/note- "Exon III-exon IV junction"
 CI;
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ARESULT 2
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 Overy Match 9 3.6%; Score 21; DB 21; Length 1302; Best Local Similarity 100.0%; Pred. No. 32; Hatches 21; Conservative 0; Hismatches 0; Indels
 Protein C and APC are also involved in the regulation of the host response to inflammation. Measurement of soluble EPCR levels is used to diagnose disorders involving coagulation or inflammation, autoimmune diseases (e.g., lupus erythematosus), and conditions such as sepsis, diabetes, pre-eclampsia and restences's. EPCR quantitation may be used for monitoring treatment, and may also be used to indicate damage to large blood vessels, as such damage stimulates proteolysis of endothelial cell membrane-bound EPCR, or the expression of the soluble EPCR splice variant. Anti-EPCR antibodies may also be used to characterise and isolate EPCR proteins and to modulate EPCR activity, particularly to inhibit ligand binding.
 15-JUL-1998;
15-JUL-1998;
15-JUL-1998;
 Human: secreted protein; diagnosis; cytostatic: immunosuppressive; antiinilammatory; mootropic; neuroprotective; antializajic; cancer; cumour; neurodegenerative disorder; developmental ahoramality; allery (oeta) deficiency; blood disorder; immune system disorder; arthritis; autoimmune disease; hepatic disease; renal disease; inflammation; Alzhe'mer's disease; behavioural disorder; schizophrenia; osteoporosis; infection; nibs; spinal cord injury; transplant rejection; diabetes; asthma; sepsis; acne; psorlasis; cardiovascular disorder; reproductive disorder; gastronivestinal disorder; respiratory disorder; metabolic disorder; food additive; preservative; ss.
 Claim 1; Page 346-347; 494pp; English.
 New isolated human genes, useful \tau r diagnosis and treatment cancers, neurological or blood distributes -
 WFI: 2000-151128/14.
P-PSDB: AAY87123.
 Rubeu SM, Komatsonlis G, Duan PP, Fosen CA, Moore FA,
Lafleur DM, Ebner R, Olsen HS, Frewer LA, Florence KA,
Mucenski M, Endress GA, Soppet PF:
 27 - JAN - 2000
 Human secreted protein encoding nucleotide sequence SEQ ID NO:70
 09-MAY-2000 (first entry)
 AAZ98076 standard; cDNA: 1373 BP
 Sequence 1302 BP; 340 A; 325 C; 341 G; 296 T; 0 other;
The polynucleotide sequences given in AAZ98017 to AAZ98108 encode the human secreted proteins given in AAY87064 to AAY87223. Human secreted
 14-JUL-1999;
 W0200004140-A1.
 Homo sapiens.
 (HUMA-) HUMAN GENOME SCI INC
 98US-0092921.
98US-0092922.
98US-0092956.
 99WO-US15849
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 protein can have activities based on the tissues and cells the games are expressed in Examples of activities include: cycostart; chamunosuppressive antinflammatory; nootropic: neuropyconcine; and antiallergic. The polymerides and their corresponding secretal polymerides are useful for preventing, treating or arelibration affect can be diagnosed by determining the amount of the new polymerides in a sample or by determining the presence of mutations in the new polymerides in a polymerides the man secreted protein s and their polymerides in a polymeride coulder. Human secreted protein s and their polymerides in a polymeride disease, the protein s and their polymerides can be used for developing products for the disgnosis or training the green the use of the irrune system, alteriges, Alzheiner's disease, behavioural diseases of the irrune system, alteriges, Alzheiner's disease, behavioural diseases, this proteins and training the proteins, AIDS, spinal cord dispression of the cord dispressions are respective, reproductive disorders assistance, respiratory disorders, reproductive disorders assistance in the proteins or polymericatides can also be used as food additions of the preservatives. And 1800 sto ANJ800 to ANJ800 to ANJ800 is and ANB8063 are semipolification of the present invention.
 Overy Match 3.5%;
Best Local Similarity 100.0%;
Matches 21; Conservative
 Human; secreted protein, proliferative disorder; cancer: """"" asthma; foetal abnormality; developmental abnormality; her-atopical clession; foetal abnormality; developmental abnormality; her-atopical clession; foetal abnormality; her-atopical clession; foetal source; Albb; autolamune disease; herracicial creatives; partiason; s disease; cognitive disorder; schizophrenia; skin disorder; partiason; sepsis; diabetes; atherosclerosis; cardovascular disorder; fortantial disorder; displace; food sidicion; anglogenic disorder; disorder; albetrointestinal disorder; alleggi; end best disorder; dis
 mat_peptide
 sig_peptide
 Human secreted protein-encoding game 50 cDNA clone HIACS12, SEQ IN VO:70
 19-JUL-2001.
 ₩0200151504-AI.
 Homo sapiens
 24-SEP-2001 (first entry)
 AAD11689;
 AADI1689 standard: cDNA: 1373 pp
 Sequence 1373 BP: 325 A: 329 C: 351 G; 358 T; 0 other:
 'Mature human secreted protein'
 9:
 Score 21: DB 21: Lenath [173; Pred. No. 32; 9: Mismatches 0: Indels
 0: Indels
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12-JAN-2001; 2001WO-US00311

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CI he serreted proteins and their genes are useful for proteins they encode. Crackers are protein from the treatments.

CC representation the proteins and their genes are useful for protein or gene thereby the formation of the protein of the protein from the treatment of the protein from the treatment of the protein from the treatment of the protein from the treatment of the protein of the protein from the treatment of the protein of the protein from the treatment of the protein from the treatment of the protein of the protein of the protein from the
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Best Local Similarity 100.0%; F
Matches 21; Conservative 0;
 Cytckine: zsig 81; wound healing: proliferation; differentiation migration: metabolism; ss.
 WC31082:
 Mouse ortholog of zsig81 ENA.
 19-MAR-2001 (first entry)
 AACG1045 standard: DNA: 1547
 Sequence 1373 BP; 325 A; 329 C; 361 G; 358 T; 0 other;
 Claim 1: Page 713-714; 854pp: English.
 Isolated nucleic acid molecule encoding a human secreted protein used in preventing, treating or ameliorating a medical condition
 (HUMA-) HUMAN GENOME SCI INC
 13-JAN-2000: 200005-0482273
 WPI: 2001-425855/45.
E-FSDB: AAE05100.
 Puben SM. Komatsouljs GA. ["Jan FE. Rosen CA. Moore PA.
Lafleur DW. Olsen HS. Brewer LA. Florence KA. Young FE.
Endress GA. Muscenski M. Phopr E:
 Scote 21: DB 22: Length 1373: Fred. No. 32: 0: Indels (
 0: Gaps
 Shi Y;
, Soppet DR;
 0:
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RESULT 28
AAD08465
AAD08465 standard; cDNA: 1549
 Query Match
Best Local S
Matches 21
 Human; secreted protein; prolife intire disorder; cencer; turour; asthra; foetal abnormality; haematopietic disorder; immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis; psorlasis; sepsis; dabetes; attherosclerosis, cardiovascular disorder; psorlasis; sepsis; dabetes; attherosclerosis, cardiovascular disorder; andiogenic disorder; kiney disorder; Albelmer's disease; food additive; andiogenic disorder; kiney disorder; alterosclerosis, cardiovascular disorder; pregnancy related disorder; endocrine disorder; infection; cound healing; cell culture; chemotaxis; vulnerary; binding partner identification; gene therapy; chromosome 20; ss.
 17-MAY-2001.
 Human secreted protein-encoding gene 17 cDNA clone HHENZ15, SEQ ID NO:72
 09-AUG-2001 (first entry)
 The present invention relates to zsig@l and fragments thereof. The invention is useful for promoting would healing, for modulating the proliferation, differentiation, migration or metabolism of responsive cell types that includes both primary and cultured cell lines, and for stimulating the proliferation of cells expressing markers associated with dendritic lineage cells.
 Piddington
 (ZYMO) ZYMOGENETICS INC
 WO200134643-A1.
 Homo sapiens
 Sequence 1547 BP; 428 A; 375 C; 357 G; 387 T; 0 other;
 Disclosure: Page 95-96; 109pp: English.
 New rsig8] polypeptides and polypucleotides useful for a gromoting would healing or in diagnosing or treating disorders associated with cell loss or abnormal cell proliferation, such as cancer
 WO200073459-A1.
 Ch 3.5%; Score 21; DB 22; Length 1547; Similarity 100.0%; Pred. No. 31; 121; Conservative 0; Mismatches 0; Indels (
 CS, West JR, Holly RD.
 Location/Qualifiers
795..809
/rtag a 'man secreted protein precursor'.
/product. "Human secreted protein precursor'.
/pore 'Does not include start codon'.
/partial
 Burkhead
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 Gaps
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fructose-6-phosphate 1-phosphotransferase enzyme;

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DЬ
 A AADOB1(1-AAD09470 represent cDNAs corresponding to 24 human secreted protein genes, and AAEO4100-AAEO420470 represent the protein fragments or variants. CC AAEO4172-AAEO497 represent human. Secreted protein fragments or variants. The secreted proteins and their genes are useful for preventing, treating CC or ameliorating medical conditions, e.g., by protein or gene therapy. CR pathological conditions can be diagnosed by determining the amount of the new genes. Specific uses are described for peach of the 24 genes, the new genes. Specific uses are described for each of the 24 genes, the new genes. Specific uses are described for each of the 24 genes, the new genes. Specific uses are described for each of the 24 genes, and the reservant of the new genes. Specific uses are described for each of the 24 genes, the new genes. Specific uses are described for each of the 24 genes, and the presence of mutations in the new genes. Specific to the diagnosis of treatment of proliferative disorders, doesn't be disorders set the second of the second include the new genes, the second of the second include the second of the second of the second include the second of the seco
 Query Match 3.5%;
Best Local Similarity 100.0%;
Matches 21; Conservative
 12-001-1995 (first entry)
 Nucleic acids encoding 24 human secreted polypeptides, useful for preventing, diagnosting and/or treating e.g. Gaucher's disease, Alzheimer's disease, Schilter syndrome, Creutzfeldt-Jacob disease, diabetes mellitus and multiple sclerosis.
Oryza sativa pPEK-OSI dene
 AACR 984 standard; cDNA to mRNA: 1624
 Sequence 1549 BP; 411 A; 302 C; 305 G: 529 T; 1 other;
 WPI: 2001-374441/39.
P-PSDB: AAE04160.
 Ruben SM.
 08-NCV-2000: 2000WO-US30629
 Score 21: DB
: Pred No 31:
0: Mismatches
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 Shi
 22;
 0;
 Length 1549;
 Indels
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 Gaps
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RESULT 10
AA15871
XX AA1587
XX AA1587
XX AA1587
XX AE Human
XX Human
XX Human
XX Human
XX Human
XX Human
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 Owery Match 3.61; Score 21; DB 16; Length 1624; Best Local Similarity 100.01; Pred, Mo. 31; Matches 21; Conservative 0; Mismatches 0; Indeis 0
 1600 atatttaaaaaaaaaaaaa 1620
 The sequences (AAQ85982-6) represent the genes encoding a novel ATP-dependent fructose-6-phosphate 1-phosphotransferase enzyme (EC 2.7.1.11; PEK) from a range of plants. This is the sequence of the Oryza sativa (rice) gene, pPFK-OSI, as given in the specification. Plants transformed with these genes can express the enzyme. The transformed plants can produce varieties that have altered sugar mantent on storage at low temperatures.
 Claim 8; Page 46-49; 79pp; Japanese.
 Oryza sativa.
 potato: Solanum tuberosum; rice; Oryza sativa; malize; Zea maye; rodish;
Raphanus sativus; Flaveria brownii; primer; expression vector;
Agrobacterium tumefaciens; sugar; storage; temperature; ds.
 DMA coding for fructose-6-phosphate 1-phosphotransferase - of plant origin, for prodm. of transformant plant cells with altered sugar content
 Hiyoshi T. Kasaoka K, Mine T. Page MJA,
 19-AUG-1993; 93JP-0226454
 16-AUG-1994;
 23-FEB-1995
 WO9505457-A.
 Human, modrropic, immunosuppressant; cytostatic, gene therapy; car er; peripheral netwous system, neuropathy; central netwous system; CNR-Alibelmer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral scierosis; Shy Drager Syndrone; chemo-dartic; chemo-kinetic; thrombolytic; drug screening; arthritis; inflammatic;;
 22-CCT-2001 (first entry)
 AA158747;
 AAI58747 standard: cDNA: 1753
 Sequence 1624 BP; 480 A; 302 C; 406 G; 436 T; 0 other;
 (MISB) JAPAN TOBACCO INC.
 Human polynucleotide SEO ID NO 950
 570 atatttaaaaaaaaaaaaa 590
 WPI; 1995-098757/13.
P-PSDB; AAR71581.
Homo sapiens.
 leukaemia; ss.
 94WO-JP01352
 /*tag= b
/transl_except= seq: AAT, a.a.:Ile
 /*tag- a
/product- fructose-6-phosphate 1-phosphotransferase
390..392
 Location/Qualifiers
3..1412
 0: Indeis 0:
 0:
```

```
RESULT 31
AAAH492
1D AAH492
AC AAH492
XX AAH482
XX AAH482
XX 25-SEP
XX DE Honeyb
XX Honeyb
XX Ap1s m
 An invention relates to human nucleic acids (AA157798-AA161369) and the encoded polyreptides (AA38642-AA461213) with mootropic. Immunosuppressant and cytostatic activity. The polynucleotides are useful configuration in the polynucleotide are useful configuration. The polynucleotide configuration is the peripheral nervous system, such as peripheral nervous injuries, peripheral nervous system, such as peripheral nervous injuries, peripheral nervous containing a polypeptide or polynucleotide containers, peripheral nervous system diseases, such as containers, parkinson's disease, such as containers, peripheral nervous system diseases, such as containers, parkinson's disease, amyotrophic contents and shyperal containers, and shyperal contain
 Query Match 3.6%; So Best Local Similarity 100.0%; F Matches 21: Conservative 0:
 21 - JAN - 2000:
25 - APR - 2000:
09 - JUL - 2000:
19 - JUL - 2000:
03 - AUG - 2000:
14 - SEP - 2000:
19 - OCT - 2000:
29 - NOV - 2000:
 Claim 1: SEQ ID NO 950: 10078pp; English.
 Novel nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries -
 Tang YT, Liu C, Asundi V, Chen R, Ma Y. Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Zhao QA, Zhou P, Goodrich R, Drmanac RT:
 Honeybee; alpha-qlucosidase; ds
 Honeybre alpha-glucosidase coding sequence.
 25-SEP-2001 (first entry)
 AAH4 8294 :
 AAH48204 Standard; DNA; 1994 BP
 Sequence 1763 BP; 527 A; 327 C; 399 G; 510 T; 0 other;
 WPI: 2001-442253/47.
P-PSDB: AAM39591.
 (HYSE+) HYSEQ INC.
 26-DEC-2000; 2000WO-US34253
 26-JUL-2001.
 W0200153312-A1
 2000US-0488725.

2000US-0552317.

2000US-05598042.

2000US-0620312.

2000US-0632191.

2000US-0632191.

2000US-063035.

2000US-063035.
 Score 21: DB 22: Length 1763:
Fred. No. 31:
0: Mismatches 0: Indels (
 Qian XB.
 Ren F, Wang D;
Zhang J;
 0;
 Gaps
```

```
RESULT 32
 Overy Match 3.6%; Score 2]; Best Local Similarity 100.0%; Pred. No. Matches 2]; Conservative 0; Mismatc
 Claim la; 116.117; 188pp; German
 Human nucleic acid sequences and protein products from tissue, useful for breast cancer therapy -
 20-MAR-1998;
 20-MAR-1998;
 DE19813839-A1.
 Expressed sequence tag: ESI; human; breast; cancer: gene therapy;
treatment; tumour: cytostatic: medicament; ss.
 Specht T, Hinzmann B, Schmitt A, Pilarsky C,
 23-SEP-1999.
 Homo sapiens.
 Human breast tumour-associated EST 37.
 08-DEC-1999 (first entry)
 AAZ33647 standard; cDNA; 2281 EP
 (META-) METAGEN GES GENOMFORSCHUNG MBH
 The present invention provides the protein and coding sequences of the homeybee alpha-glucosidase. The gene can be used for the preparation of Apis mellifera alpha-glucosidase I. The present sequence is the coding sequence of the invention.
 Claim 2; Page 6-9; 11pp; Japanese.
 Sequence 1994 BP; 753 A; 310 C; 357 G; 574 T; 0 other;
 Apis mellifera alpha-glucosidase gene
 WPI; 2001-460212/50.
P-PSDB; AAG64875.
 (NISO) NIPPON SHOKUHIN KARO KK
 01-SEP-1999; 99JP-0245862.
 01-SEP-2000; 2000JP-0265070.
 22-MAY-2001
 JP2001136986-A.
 CDS
 98DE-1013839.
 98DE-1013839.
 /*tag= a
/product= *alpha-glucosidase*
 Location/Qualifiers
13..1779
 0%; Score 21; DB 22;
0%; Pred. No. 30;
0; Mismatches 0
 0: Indels
 Dahl
 Length 1994;
 tumor breast
 Posentahl
 0:
 Gaps
Ouery Match
 CDS
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,

3.6%:

DB 15;

Length 3133;

```
RESULT 33
AA090652
ID AA09065
XX
AC AA09065
XX
 x SSSSSSSSSX x
 Query Match
Best Local S
Matches 21
Sequence 3133 BP: 718 A; 918 C: 922 G: 575 T: 0 other:
 Novel EPH: related PTK Cek6 CDNA clones (AA09052) were isolated from chick erbivo and embryonic beain CDNA libraries in phase lambda glill. Check erbivo and embryonic beain CDNA libraries in phase lambda glill. Check CEK6 (AAP7572) and CEM1 (AAP7570) is cek6 transcripts were found in Cek6 CAAP7572) and CEM1 (AAP7570). Cek6 transcripts were found in 10-day embryos and in adult brain, lung, heart and skeletal macrie.
 Disclosure: Page 37-41; 129pp; English.
 WPI: 1995-215256/28.
P-PSDB: AAR75704.
 Pasquale EB, Sajjadi FG:
 (LJOL-) LA JOLLA CANCER RES FOUND
 03-DEC-1993;
 07-SEP-1994;
 08-JUN-1995
 W09515375-A
 Gallus sp.
 Cek6: Eph: protein tyrosine-kinase; PTK; cancer; diagnosis; prognosis: ss.
 Eph-related tyrosine kinase CEK6 cDNA.
 AAQ90652;
 This invention derithes novel human nucleic acid sequences from tumor breast tissue which have cytostatic activity. The nucleic acid sequences can be used to produce and isolate full-length gene sequences. They can be used to express proteins, which can be used as tools to find an activity against he sast cancer. The sequences can be used in sense or antisense form. They are especially useful for medicaments for gene therapy to truck hreast cancer. Ac233(1):246(7) represents expressed sequence tags described in the method of the invention.
 Eph-related protein tyrosine kinase(s) - for monitoring and diagnosing
 11-NOV-1995 (first entry)
 AAO90552 standard: cDNA: 3133 BP
 Sequence 2281 BP; 501 A: 498 C: 494 G: 688 T; 0 other:
 atch 3.6%; Score 21; DB 20; Length 2281; Cal Similarity 100.0%; Prod. No. 30; Cal Similarity 00; Mismatches 0; Indels (
 9305-0162809
 94WO-US10140
 /*tag- a
421..2859
/*tag- b
 Location/Qualifiers
3..419
 0;
 Gaps
 0;
```

```
RESULT 35
AAX39661/c
 Best Local Similarity 100.0%; Matches 21: Conservative 0;
 Ouery Match 21: Length 3931: Score 21: DB 22: Length 3931: Best Local Similarity 100:0%; Pred. No. 28: Matches 21: Conservative 0; Mismatches 0: Indels (
 The present sequence is the coding sequence for portine CD29 protein. CD29 contains pittopes Gal-alpha-(1.3)-Gal, which are recognised by genoreactive human antibodies, leading to hyperacute rejection of xeoograffs. The present invention relates to CD29 proteins which have an identical, reduced or zero expression of epitope Gal-alpha-(1.3)-Gal, which can be used to reduce or prevent hyperacute rejection associated with xenotransplantation.
 04-OCT-2000; 2000WO-ES00374
 Porcine: CD29: immunosuppressive: immunomodulatory:
epitope Gal-alpha-(1.3)-Gal: xenotransplantation: xenograft: ss.
 AAH19355 standard; cDNA; 3831 BP
 Claim 4; Page 38-39; 46pp; Spanish.
 Porcine CD29 protein and related DNA, antibodies to prevent graft rejection useful as graft donors -
 Garrido Pavon JJ, Llanes Ruiz D, Jimenez Marin AM;
 (BIOV-) BIOVET-UCO SL.
 05-OCT-1999; 99ES-0002193
 12-APR-2001.
 MO200125279-AJ
 Sus scrofa.
 Porcine CD29 protein coding sequence.
 25-JUL-2001 (first entry)
 AAH19355;
 Sequence 3831 BP; 1114 A; 703 C; 920 G; 1094 T; 0 other;
 PI; 2001-273559/28.
-PSDB; AAB84751.
 ' 2
 Location/Qualifiers
241.7637
/ttage a
/product * Porcine CD49*
/transl_except * (pos:1027..1035,aa:Ser-Leu-Ile)*
 Pred. No. 29;
D; Mismatches
 Babancho Medina
 useful for removing xenoreactive and to prepare transgenic animals
 0
 Indels
 0
 0;
 Gaps
 Gaps
 0
 0
 AAMSOS30/
 6
 ş
 Overy Match 3.5%; Sometime 100.0%; From Matches 21; Conservative 0;
 22 - JUN - 1998
17 - JUL - 1997
10 - OCT - 1997
10 - OCT - 1997
10 - OCT - 1997
11 - OCT - 1997
 1100 ATATTTAAAAAAAAAAAAAA 1080
 Claim 67: Page 500-502: 787pp; English.
 02-JUL-1999 (first entry)
 AAX39681 standard; DMA; 5306
 AAN50530;
 AANS0530 standard: DNA; 5750 BP
 WPI: 1999-132448/11
 Tureci 0;
 (LUDW-) LUDWIG INST CANCER RES
 15-JUL-1998;
 28-JAN-1999.
 W09904265-A2
 Homo sapiens
 Renal cancer associated gene.
 AAX39681;
 lung cancer.
 98US-0102322.
97US-0896164.
97US-0061599.
97US-0061765.
97US-0948705.
97GB-0021697.
 98WO-US14679
 Score 21: DB:; Pred. No. 27: 0; Mismatches
 ΒP
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The invention relates to a method for diagnosing a disorder characterised by expression of a human cancer associated antigen precursor coded for by a nucleic acid molecule (RAM). The method comprises: (a) contacting a biological sample isolated from a subject with an agent that specifically binds to the NAM, an expression product or a fragment of an expression product complexed with an HLA molecule; and (b) determining the interaction between the agent and the NAM or the expression product as determination of the disorder. The products and methods can be used in the diagnosis, monitoring, research, or treatment of conditions in characterised by the expression of various cancer associated antigens. The invention provides nucleic acid sequences and encoded polypeptides which are cancer associated antigen precursors expressed in human breast cancer, renal cancer, colon cancer, gastric cancer, prostate cancer and
 Chen Y, Gout I, Gure A. O'Hare M, Obata Y, Old LJ: Pfreundschuh M. Sahin U, Scanlan MJ, Stockert E:
 Cancer associated antigen; diagnosis: research; treatment; human; breast cancer; colon cancer; gastric cancer; renal cancer; lung cancer; prostate cancer; ss.
 Sequence 5305 BP; 1857 A; 973 C; 1076 G; 1390 T; 0 other;
 have isolated cancer associated nucleic acids and polypeptides sisolated using sera from cancer patients, used to develop products for the diagnosis, monitoring or treatment of cancers
 20; Length 5306;
 0:
Gaps
 0
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AAC77811
AAC7781
AAC778
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AC AA
 Opery Match 3.5%; Score 21: DB 6: Length 5760:
Best Local Similarity 100.0%; Pred: No. 26;
Matches 21: Conservative 0: Mismatches 0: Indels
 26-SEP-1984;
22-FEB-1984;
21-FEB-1985;
 The sequence encoding the P195 protein of plasmodium falciparum (AAM5030) and a peptide comprising at least one of its epitopes (see AAP50777) are claimed. Also claimed is a vaccine for inducing immunity to malaria comprising the novel peptide or P195 or a peptide comprising at least one epitope when derived from the new DNA sequence, together with a carrier.
Human: cancer associated gene: cancer antigen: detection: cancer: diagnosis: cytostatic; proliferative: winerary: immunordulator: antidiabetic; antiasthmatic; antirheumatic; antiarthricic; antiviral: antiinflammatory: antithyroid; antiallergic; antibacterial; cardiant; dermatological; neuroprotective; thromblytic; coagulant; novtropic; wasotropic; antipsociatic; antiandjogenic; gene therapy; inflammation: immunor disorder; hemenorpopietic cell disorder; autoimmunor disorder; article; antiandjogenic gene therapy; inflammation: allergic reaction; graft versus host disease; organ rejection:
 AAC77811;
 11-SEP-1985
 EP154454-A.
 Human cancer associated gene sequence SEQ ID NO:205.
 08-FEB-2001 (first entry)
 AAC77811 standard;
 Sequence 5760 BP: 2565 A: 630 C: 725 G: 1840 T: 0 other:
 Claim 2; Fig 1; Sipp: English.
 Cloned DNA sequence encoding plasmodium falciparum provain useful for expressing the protein for use in vaccines against malaria
 WPI; 1985-224845/37.
P-PSDB; AAP50777.
 Holder A,
 (WELL) WELLCOME FOUNDATION LTD.
 21-FEB-1985;
 Plasmodium
 Malaria vaccine; epitope; antigen; immunogen; ss.
 Sequence encoding the P195 protein of Plasmodium falciparum
 30-SEP-1991 (first entry)
 Sandhu J.
 falciparum.
 84GB-0024340.
84GB-0004692.
85GB-0004429.
 85EP-0301173
 Location/Oualifiers
216..5179
/*tag= a
 CDNA; 5830
 Odink K. Lockyer M. Riveros-Moreno
 0;
 Gaps
 3
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AXX5366/c

ID AXX75366 standard: DNA: 35

XX AX75366:
XX AX75356:
XX Paeumocystis carinii lysyl
XX Peeumocystis carinii: lysyl
XX Paeumocystis carinii: lysyl
XX Paeumocystis carinii: lysyl
XX Acquired Immune Deficiency
XX Acquired Immune Deficiency
 XX XX ANC77607 to ANC78448 encode the human cancer associated proteins given CG in ANE43398 to ANE4239. The proteins can have activities based on the Ussays and colls the genes are expressed in Example of activities CG include: cytostatic; proliferative; vulnerary; immunomodulator; can ilidiformatic; antiformatic; antiformatic; antiformatic; antiformatic; antiformatic; conductivities conductivities constraint and polypoptides antipoptial candidation; conductivities conducted and polypoptides can be used for preventing, creating or polypoptides and polypoptides and beta disprosing pathological; conductions and disprosing pathological conditions and disprosing pathological conditions or polypoptides, antibodies, againsts and antagonists from CG polypoptides, polypoptides, antibodies, againsts and antagonists from CG polypoptides and polypoptides and offerentiation or mobilisation of immune cells, to treat disorders of haematopoletic cells, autoimmune cells, to treat disorders of haematopoletic cells, autoimmune cells, to treat disorders, graft versus host disease and organ cells, to treat disorders, and polypoptides and conditions of inflammation, cancers, cardiovascular disorders, neurological disease and bacterial or viral infections. The peptides nucleotides, antibodies, cancers, and antagonists may be also be used in drug screens. AAC78439 to CG AAC78457 and ABA4420 represent sequences used in the exemplification of CG the present invention.
 Owery Match 9.5%; Score 21: DB 21: Length 5830: Best Local Similarity 100.0%; Pred. No. 26: Matches 21: Conservative 0: Mismatches 0: Indels
 08-MAR-2000: 2000WO-US05882.
 05-AUG-1999 (first entry)
 Claim 1: Page 777-779: 2352pp; English.
 Novel isolated nucleic acids comprising sequences encoding peptides useful for treating or diagnosing e.g. cancer \cdot
 WPI; 2000-587533/55.
P-PSDB; AAB43602.
 12-MAR-1999; 99US-0124270.
 21-SEP-2000
 haemostatic: thrombolytic: cardiovascular disorder; infection neurological disease: drug screening: ss.
 pneumorystis carinii. lysyl-tank synthetase: tyrosyl-tank synthetase:
aminoacyl-tFNA synthetase: pneumonia: AIDS: immuno-compromised:
Acquired Immune Deficiency Syndrome: detection: PCR primer: ss.
 Pneumocystis carinii lysyl-tRNA synthetase PCR primer #29
 Sequence 5830 BP; 1558 A: 1417 C; 1409 G; 1439 T; 7 other;
 Rosen CA, Ruben SM:
 (HUMA-) HUMAN GENOME SCI INC
 SE
 0
 0
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RESULT 39
AAX76360/c
ID AAX76360 standard; DNA; 40 BP.
 The present invention describes Pneumocystis carinii (P. carinii)

Caninoacyl-RMA synthetase enzymes. The nucleic acids encoding aninoacyl-
CRMA synthetase enzymes may be used to produce expression vectors and

chost cells for the recombinant production of Pneumocystis aninoacyl-rRMA

cynthetase. The proteins may then be used in other procedures such as

separating amino acids from samples or as antigens in the production of

cantibodies. The nucleic acids may also be used to produce tester cell

strains (which contain the nucleic acids) which may be used to test

candidate drugs (e.g. tRMA synthetase inhibitors) for the treatment of

disorder associated with P. carinii such as pneumonia which is a cormon

complication for Acquired immune Deficiency Syntrome (AIDS) patients and

cother immuno-compromised individuals. Additionally, they may also be

used to detect and isolate related DNAs in sample (i.e. they can be used

can probes). The present sequence represents a PCR primer for a

present invention.
 Query Match 3.4%; Score 20; DB Best Local Similarity 100.0%; Pred. No. 1.7 Matches 20; Conservative 0; Mismatches
 Nucleic acids encoding Pneumocystis carinii aminoacyi-tRNA synthetase enzymes useful for detecting similar sequences in samples and in the study and treatment of pneumonia in Acquired I-mune Deficiency Syndrome patients
 US5912140-A.
15-JUN-1999.
 US5912140-A.
 Synthetic.
Pneumocystis carinii.
 Phermocystis cartinii, lysyl-teNA synthetase: tyrosyl-teNA synthetase: manionacyl-teNA synthetase: pneumonia: ALDS: immuno-cc-procised: Acquired immune Deficiency Syndrome: detection: PCR primer: ss.
 Pneumocystis carinii lysyl-tRNA synthetase PCR primer 31.
 05-AUG-1999 (first entry)
 AAX76360;
 Example 17; Column 47; 55pp; English.
 Politis-Virk KI, Quinn CL,
 (CUBI-) CUBIST PHARM INC.
 03-APR-1995;
 03-APR-1995;
 15-JUN-1999.
 Synthetic. Pneumocystis carinii.
 Sequence 35 BP; 7 A; 5 C; 2 G; 21 T; 0 other;
 WPI: 1999-357196/30.
 9505-0415593
 95US-0415593
 Schimmel PR, Tao N, Whoriskey SK:
 DB 20; L
. 1.2e+02;
ches 0;
 Length 35
 Indels
 0:
 Gaps
 9
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21-AUG-1995;

95WO-GB01987

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g
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 RESULT 40
AAT17027/c
ID AAT17027 standard: DNA: 42
 The present invention describes Pheumocystis carini (P. carini) Comminacyi-IRNA synthetase enzymes. The nucleic acids encoding aminoacyi-IRNA synthetase enzymes may be used to produce expression vectors and host cells for the recombinant production of Pheumocystis aminoacyi-IRNA synthetase. The proteins may then be used in other procedures such as synthetases. The proteins may then be used in other procedures such as separating amino acids from samples or as antiques in the production of cantibodies. The nucleic acids may also be used to produce tester cell CC strains (which contain the nucleic acids may built may be used to test condidate drugs (e.g. IRNA synthetase inhibitors) for the treatment of complication for acquired imanne peficiency Syndrome (AIDS) patients and cother immunor-compromised individuals. Additionally, they may also be used to detect and isolate related DNAs in sample (i.e. they can be used to see the present sequence represents a PCR primer for a present invention.
 Ouery Match 3.4%: Sometime 50.0%; I Best Local Similarity 100.0%; I Matches 20; Conservative 0;
 29-FEB-1995
 K29606187-A1
 misc_feature
 Homo sapiens
 Human; mitochondrial DNA, beavy chain; primer; polymorphism;
identification; discrete single nucleotige bases; method; screen;
genetic disease; DNA typing; forensic testing; microorganisms; ss
 Human mitochondrial DNA heavy chain primer H16070.
 04-OCT-1996 (first entry)
 AAT17027;
 Sequence 40 BP; 8 A; 6 C; 4 G; 22 T: 0 other;
 Example 16; Column 44; 65pp; English.
 Nucleic acids encoding Pneumocystis carinii aminoacyl·tRNA, synthetase enzymes useful for detecting similar sequences in samples and in the study and treatment of pneumonia in Acquired immune Deficiency Syndrome patients
 KPI: 1999-357196/30.
 Politis-Virk KI, Quinn CL.
 03-APR-1995;
 95US-0415593
 /*tag* a
/note= "5'-polyT tail. opt. polyA"
 Location/Qualifiers
 Score 20: DB 20: 1
Pred. No. 1.2e+02:
0; Mismatches 0:
 Schimmel PR. Tao N. Whoriskey
 Length 40:
 Indels
 0
 Gaps
```

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RESULT 41
 the present oligonucleotide is the human mitochondrial DNA heavy chain primer AMH5670, where the No. is the position adjacent to the position adjacent to the position adjacent to the position of at least 2 used in a claimed method for the identification of at least 2 considered in a polynucleotide chain.

A sample is mixed with primers (P) that are complementary to the characterised base sequence so that they annual to the nb, at characteristic that retain the chain terminator each having a characteristic fluorescent label, and a chain extending enzyme so that the extended reare them sept. according to size or charge, and the extended reare them sept. according to size or charge, and the secteminator incorporated into protated into pr
 Query Match 3.4%;
Best Local Similarity 100.0%;
Matches 20; Conservative
 Identifying single nucleotide bases adjacent to target sequence
by annealing primer adjacent to the base and extension with
fluorescently labelled chain terminator, for simultaneous screening
of genetic diseases, or for forenaic testing
(PHYL-) PHYLOS INC
 02-DEC-1998;
 02-DEC-1999;
 WO200032823-A1.
 misc_binding
 Synthetic.
 DNA-protein fusion; RNA-protein fusion; stable; ss
 Model mRNA #3 used to demonstrate DNA-protein fusion
 10-JAN-2001 (first entry)
 AAA61354 standard; mPNA; 51 BP
 Sequence 42 BP; 7 A; 2 C; 8 G; 25 T; 0 other:
 Claim 21; Page 18; 40pp; English.
 WPI: 1995-151390/15.
 25-AUG-1994;
 (SOLI-) SOLICITOR AFFAIRS OF HM TREASURY.
 94GB-0017211.
 9808-0110549
 99WO-US28472
 Location/Qualifiers
6..28
/*tag* a
/bound_moiety* *Linker 7*
 0: Mismatches
 Score 20; DB 17;
Pred. No. 1.2e+02;
 Length 42:
 Indels
 0.
 Gaps
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1. 1.

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3
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 PESULI 42
AAV25706
ID AAV25706 standard: cDNA; 79
 The present invention relates to methods of covalently tagging proteins with their encoding DNA sequences. Several methods may be used to create these DNA-protein fusions. In deneral, the methods involve linking a corpiner to an RNA molecule, then translating the RNA to produce a protein which is bound to the primer. The RNA is then reverse transcribed to captive a DNA-protein fusion. The present sequence is model mRNA is contained to that was used to demonstrate DNA-protein fusion formation. This captures was used as a substrate for the binding of linker 7 (see CC ANAS1351). The DNA-protein fusions are useful in binding and molecular corporation assays that involve biological meterials containing thomates the fusion more stable than RNA-protein fusions. This means conditions.
 Cuery Match 3.4%; Score 20; DB 21;
Best Local Similarity 80.0%; Prod, No. 1.2e+02;
Matches 15; Conservative 4; Mismatches 0;
 Compositions containing isolated proteins encoded by specific nucleic acids - useful e.g. as anti-inflammatory, immune stimulant or suppressor, etc.
 Jacobs K. Lawallie ER. McCoy JM. Merberg D. Spaulding V. Treacy M:
 04 - OCT - 1996;
 03-CCT-1997;
 Secreted protein, human, marker, cytokine; immune stimulant, suppressor; autofommune disease; regularor; activin; inhibito, inhibitor; chemotactic; chemotinettic; harmostatic; throricocyte; tumour; anti-inflammatory; ds.
 AAV25705;
 (GEMY) GENETICS INST INC.
 09-APR-1998.
 W29814470-A2
 11-SEP-1998 (first entry)
 Sequence 51 BP; 26 A; 7 C; 5 G; 7 U; 5 other;
 Generating a DNA-protein (usion useful for selecting a desired protein
or the encoding DNA, comprises covalently linking proteins with their
encoding DNA sequences
 Homo sapiens
 Human novel secreted protein clone BF290_li 37-end DNA
 Disclosure: Fig 14: Sipp: Enalish
 Lohse P. Kurz M.
 9608-0725885
 97WD-US18032
 Wagner
 Racie
 Lenath 51;
 Indels
 0;
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axoccoccoccoccx w

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EESULT 43
AAA61347
 Query Match 3.4%; So
Best Local Similarity 100.0%; F
Matches 20; Conservative 0;
 This sequence encodes the 3'-end of a novel secreted protein from clove Br290_11 isolated from a human fetal brain cDNA libray, Such secreted proteins can be used for, e.g. research purposes (as markers for utrition as cleular weight markers for gels, primers and probes), for nutrition (as C. Nor carbohydrate source), as a cytokine for cell proliferation and differentiation activity, as immune stimulants or suppressors, e.g. for viral, bacterial or fungal infections, for autoimmune diseases such as multiple scierosis or systemic lupus a crithenatosus, to regulate hematopoissis, for tissue growth, as an activin or inhibin, or having chemotactic or chemo-kinetic, hascostatic and thrombooytic, receptor/ligand, anti-inflammatory or turour inhibitory
The present invention relates to methods of covalently tavaing proteins with their encoding DNA sequences. Several methods may be used to create these DNA protein fusions. In general, the methods involve linking a primer to an RNA molecule, then translating the RNA too produce a protein which is bound to the primer. The PNA is then reverse transcribed to give a DNA-protein fusion. The present sequence is model PNA substrate in that was used to demonstrate DNA protein fusion formation. The DNA-protein fusions are useful in binding and molecular recognition assays that involve biological materials containing ribonucleases. The covalent bond between the protein and the encoding PNA makes the fusion more stable than PNA-protein fusions. This means selection experiments need not be limited to extremely mild reaction conditions.
 Disclosure: Page 94: 117pp: English.
 02-DEC-1998; 98US-0110549
 10-JAN-2001 (first entry)
 Sequence 79 BP: 73 A; 0 C: 0 G: 5 T: 0 other;
 02-DEC-1999;
 Synthetic.
 DNA-protein fusion; RNA-protein fusion; stable; ss.
 Model RNA substrate #3 used to demonstrate DNA-protein fusion
 AAA61347 standard: PNA; 115
 Disclosure; Page 15; 51pp; English.
 Generating a DNA-protein fusion useful for selecting a desired frotein or the encoding DNA, comprises covalently linking proteins with their encoding DNA acquences
 (PHYL-) PHYLOS INC
 activities.
 Lohse P,
 Kurz M. Wagner R:
 99WO-US28472
 Score 20: DB 19; L; pred. No. 1.1e+02; 0; Mismatches 0;
 Length 79:
 Indels
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AAAJ1926:

AAAJ1926:

X AAAJ1926:

X AAAJ1926:

X AAAJ1926:

X D9-JUL-2000 (first entry)

XX Plant microsatellite marker as perfect the perfect of the perfe
 G
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S
 45
45
 Query Match
Best Local S
Matches 16
 Owery Match
Best Local S
Matches 20
 Sequences AAA31040-A32093 represent novel plant microsatellite sequences and associated flanking species. The sequences comprise a central core repeat sequence, especially selected firm the sequences AAA32094 A32096 with left and right flanking sequences. The polynuciocities sequences can be used in the detection of DNA polynophisms, in genome mapping, in physical mapping, in positional cloning of genes, in variety identification and in evaluation of genetic variability within and between plant tissues, populations, cultivars, species and species goups. They may also be used to design hybridization probes for colligonucleotide ingerprinting and livrary screening and to design primers for microsatellite primer for microsatellite primer for microsatellite primer for microsatellite primers.
 Sequence 115 RP; 48 A; 23 C; 23 G; 21 U; 0 other;
 Sequence 242 BP; 106 A; 23 C; 70 G; 43 I; 0 other:
 Claim 1; Page 337; 392pp; English.
 New plant microsatellite markers and associated flanking species the detection of polymorphic genetic markers \cdot
 Havukkala IJ, Bloksberg LN, Glenn M:
 (GENE-) GENESIS RES & DEV CORP LID & FLIIGHER (FLEI-) FLETCHER CHALLENGE FORESTS LID.
 plant microsatellite sequence; core regeat sequence; detection; probe
DNA polymorphism; genore.mapping; physical mapping; finecrprintings;
variety identification; cauetic variability evaluation; primer; ss.
 Plant microsatellite marker #887
 3.4%:
al Similarity 80.0%;
15: Conservative
 al Similarity 100.0%;
20: Conservative
 ?
 Score 20: DB 21: Lenath 115: Pred. Mo. le.02: Indels 4: Mismatches 0: Indels
 Score 20: PB 21: Length 242: Pred. No. 95: 0: Mismatches 0: Indels
 0;
 0:
 Gaps
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RESULT 45
AAZ08301
ID AAZ08301 standard; cDNA; 278 BP.
XX
 22-DEC-1998;
28-JAN-1998;
28-JAN-1998;
18-MAR-1998;
18-MAR-1998;
23-JUL-1998;
23-JUL-1998;
 The present invention describes lung tumour specific polynucleotides and tumour antigens. AAC07144 to AAZ07245 and AAZ08255 represent specifically claimed polynucleotides, and AAV2345 to AAX25571 represent amino acid sequences from the present invention. The lung tumour specific polynucleotides and polypeptides can be used in pharmaceutical compositions and vaccines to inhibit the development of lung cancer. They can also be used to detect lung cancer in a patient. Probes and antibodies derived from the lung tumour sequences are useful in detection of lung cancer.
 Lung tumour specific polynucleotides for inhibiting the development of lung cancer % \left(1\right) =\left\{ 1\right\}
 Claim 13; Page 139; 171pp; English.
 Human lung tumour protein SAL-109 5' cDNA sequence.
 13-OCT-1999 (first entry)
Sequence 278 BP; 113 A; 41 C; 45 G; 79 T; 0 other;
 WPI; 1999-479187/40.
 Frudakis TN, Lodes MJ, Mohamath R, Reed SG;
 26-JAN-1999;
 05-AUG-1999.
 909938973-A2
 Homo sapiens.
 Human; lung tumour protein; therapy; diagnosis; lung cancer; vaccine; Lumounotherapy; detection; inhibition; ss.
 (CORI-) CORIXA CORP.
 98US-0219245.
98US-0015022.
98US-0015029.
98US-0040828.
98US-0040831.
98US-0122191.
98US-0122192.
 99WO-US01642
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wery Match 3.4%; Score 20; DB 2

Query Match 3.4%; Score 20; DB 20; Length 278; Best Local Similarity 100.0%; Pred. No. 93; Conservative 0; Hismatches 0; Indels 0; Gaps

Search completed: April 30, 2002, 11:15:48 Job time: 12217 sec

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Title:
Perfect score:
Sequence:
 Total number of hits satisfying chosen parameters:
 Minimum DB seq length: 0
Maximum DB seq length: 2000000000
 Word size :
 Searched:
 Scoring table:
 Run on:
 OM nucleic -
 Result
 Post-processing: Listing first 45 summaries
 Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
 N_Geneseq_1101:

| K_Geneseq_1101:
| K_Geneseq_1yeneseqn/NA1980.DAI:
| K_Geneseq_1yeneseqn/NA1981.DAI:
| K_Geneseq_1yeneseq_1yeneseqn/NA1981.DAI:
| K_Geneseq_1yeneseq_1
 nucleic search, using s∀ model
 Query
 930621 seqs, 428662619 residues
 OLIGO_NUC
Gapop 60.0 , Gapext 60.0
 1 aytoccaagaactcaataat.....agctaagtaggaacacaccc 1075
 US-09-248-178-63
1075
 April 30, 2002, 10:54:22; Search time 723-53 Seconds (Without alignments) 1269.231 Million cell updates/sec
 General version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd
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New preast tumour protein genes used, in vaccines for immunotherapy, or for diagnosis of breast cancer
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|   | NO     | Score  | Match | Match Length DB |    | 10       | Description        |
|---|--------|--------|-------|-----------------|----|----------|--------------------|
|   |        | 1 1079 | 100.0 | 1079            | 20 | AAX84209 | DNA encoding human |
| - |        | 2 1079 | 100.0 | 1079            | 22 | AAC75438 | cDNA sequence of h |
| _ | n      | 3 959  | 88.9  | 1948            | 22 | AAI58997 | Human polynucleoti |
| _ | n      | 4 959  | 88.9  | 1958            | 22 | AA160783 | Human polynuclecti |
| _ | 0      | 5 908  | 84.2  | 1920            | 21 | AAZ47118 | Human CD40 recepto |
| _ | G      | 806 9  | 84.2  | 2499            | 20 | AAX28153 | Topoisomerase II b |
| _ | 0      | 7 799  | 74.1  | 1898            | 22 | AAH15146 | Human cDNA sequenc |
| _ |        | 8 501  | 46.4  | 1296            | 21 | AAC98160 | Human colon cancer |
| _ | o<br>- | 9 209  | 19.4  | 752             | 22 | AAH08073 | Himan cDNA clone ( |
| _ | 0 1    | 0 94   | 8.7   | 444             | 22 | AAI15311 | Probe #5244 for ge |
| _ | -      | 1 94   | 8.7   | 169             | 22 | AAI24484 | Probe #14417 for g |
|   |        |        |       |                 |    |          |                    |

| dopsis the          |             | 396  |        | 17     | <b>\$</b> ~<br>(7) |
|---------------------|-------------|------|--------|--------|--------------------|
|                     |             |      | 1.6    | 17     | 4n<br>4-           |
|                     |             |      | 1.6    | 17     | 40                 |
| Human secreted pro  |             |      |        | 17     | 4-2                |
| Complete genome of  |             |      | 1.7    | ŭ.     | <b>4</b> **        |
| Bacteriophage 77 c  |             |      | 1.7    | 18     | Ċ                  |
| Human alpha3 integ  |             |      | 1.7    | 18     | 36                 |
| Human GAP b3 gene.  |             |      | 1.7    | 18     | iai<br>Gr          |
| Lung cancer associ  |             |      | 1.7    | 16     | 37                 |
| Mitochondrial NAD(  | 13 AAQ23258 | 1923 | 1.7    | 18     | ų.                 |
| Sequence encoding   |             |      | 1.7    | 1 á    | (4)<br>(3)         |
| Human ORFX ORF1317  |             |      | 1.7    | ď      | (a)                |
| Human IL-lra BAC c  |             |      | 1.7    | e<br>L | w<br>t,            |
| Human colon cancer  |             |      | 1.7    | E,     | <b>1</b> 00        |
| Enterococcus faeca  |             |      |        | 19     | لدا<br>د ر         |
| Human polynuclecti  |             |      |        | 19     | ŭ,                 |
| Rat T2R02 nucleoti  |             |      |        | 19     | 2 ;                |
| Aspergillus nidula  |             |      |        | 16     | 7.                 |
| Sequence of ANS-1   |             |      |        | 16     | 27                 |
| Human secreted pro  | 20 AAX22252 |      |        | 15     | N<br>U             |
| Human cervical can  |             |      |        | 19     | 25                 |
| Human cervical can  |             |      |        | 19     | 2:                 |
| Human cervical can  |             |      |        | 19     | N)                 |
| Human cervical can  |             |      |        | 19     | 22                 |
| Human biallelic ma  |             |      |        | 19     | 21                 |
| Arabidopsis thalia  |             |      |        | 20     | K)<br>C'           |
| Arabidopsis thelia  |             |      |        | 20     | 15                 |
| Human secreted pro  | AAC3135     |      | 1.9    | K)     | 16                 |
| Human XIAP coding   | AAVS503     |      | 1.9    | 21     | 17                 |
| Human colon cancer  |             |      | 1.9    | 21     | 16                 |
| Mouse CD40 recepto  |             |      | ω<br>ω | u o    | 15                 |
| Human cDNA clone (  |             |      | 4.2    | ı,     | -                  |
| Human map-related   | 21 AAZ68598 |      | 4      | 47     | <b>1</b>           |
| united sectored bio | 2524000     |      |        | ò      | -                  |

## ALIGNMENTS

Breast tunour protein; immunogenic fragment; vaccine; detection; breast cancer development; therapy; ss. DNA encoding human breast tumour protein immunogenic fragment.

3; Page 60; 70pp; English

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 Query Match
Best Local Similarity 100.0%;
Matches 1079; Conservative 0.
 This sequence encodes a human breast tumbur protein immunogenic fragment of the invention. The polypeptides or nucleic acids encoding them are useful in vaccines and pharmaceutical compositions for manufacture of medicaments for inhibiting the development of breast cancer in a patient. They can also be used to treat breast cancer. Antibodies against these polypeptides can be used to detect and monitor progression of breast cancer in partients. Primers and probes derived from the polypucleotides encoding the breast proteins are useful for detection of breast cancer. Ferripheral blood cells from a patient incubated in the presence of at least one polypeptide, such that I cells proliferate, are useful in manufacture of a medicament for treating breast cancer in a patient. Antilyen presenting cells incubated in the presence of at least one polypeptide are also useful for treating breast cancer.
 Sequence 1079 BP; 327 A; 229 C; 177 G; 346 T; 0 other;
 481
 481
 361
 361
 301
 301
 241 taatgetgaattetgaaaacacaaccacaaaccatagttggtttttctgtgacaatgate 300
241 taatgetgaattetgaaaacacaccacaaaccatagttggtttttctgtgacaatgate 300
 181 tattaaatygeetesesteetyaatyesyssätytyttestitaastaataateit 240
181 tattaaatygeetesesteetyaatyesyssätytyttöytitaastaataateitaitet 240
 61
 61
 caaacttcggggaataatgtgtccctcttctgctgctgctgctgaaaaatattcgatcaaa
 cagtacattatttcctccacagcaaacctacctttccagaaggtggaaattgtatttgca 360
 0:
 Score 1079; DB 20; Length 1079;
Pred. No. 0;
; Mismatches 0; Indels 0;
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 1020

 72) tjactotggaycotottgcattttotttääääcoatttttääotgattcattogttoogo
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07-FEB-2001 (first entry)

CDNA sequence of human breast tumour clone 1015D11

Human; breast tumour antigen; cytostatic; immunotherapy; breast cancer; vaccine; ss.

1u-APK-2000; 2000WO-US09688

05-APR-1995: 99US-0288950 02-JUL-1999: 99US-0346327

(CURI-) CORIXA CORP.

WPI; 2000-638568/61. Reed SG, XaJ, Dillon DC;

A rowel isolated polypeptide comprising an immunogenic portion of a treast cancer protein useful in the detection and treatment of breast carrier:

Claim 4; Page 77; 55pp; English.

ACCTS418

XX

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AACTS438

ACCTS438

ACCTS438

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XX

CENA sequence of hun

XX

ACCTS438

Breast cancer; vacci

CS

HUMO Sapiens

XX

MILLAN; breast tumour

XX

ACCTT2000

ACCTT2000

ACCTT2000

ACCTT2000

ACCTT200 The present sequence was isolated from a breast tumour cDNA library. It is provided in a specification relating to compounds for immunotherapy and diagnosis of breast cancer. Breast tumour antigens and the polynucleotides that encode them may be used in the production of practice to composition to be used in the treatment of breast cancer. Frollierated it cells and incubated antigen presenting cells are also required. The polypeptides and polynucleotides may also be used to

Sequence 1079 BP; 327 A; 229 C; 177 G; 346 T; 0 other;

601

541 acgaagittacaagcagcagitattccaagaitagagitcattigigiatcccaigiata 541 acgaagittacaagcagcagitattccaagaitagagitcattigigiatcccaigiata

600

ctygcaatytttayytttgcccaaaaatctcccayacatccacaatyttyttyggtaaacc

100.0%;

Score 1075;

DB 21; Length 1079;

tgactotggagcorottgcatttctttaaaaccatttttaactgattcattcgttccgc accacatctggtaacctctcgatcccttagatttgtatctcctgcaaatataactgtagc

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Matches 1079; Conservative
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 961 atgacctytaataeteteataattaettyatetettettaaystagetataataetyyyy 1020
961 atgacctytaataeteteataattaettyateettettettaystagetataataetyyyy 1020
 106
 #11 attcacatgcacacataaaagytttctcatcattttytacttyjaaaaggaataatctt 900
#11 attcacatgcacacataaaagytttctcatcatttgytacttyjaaaaggaataatctt 900
 721
 721
 Sil acyaaytttacaaycaycayttattccaayattayayttcatttytytatcccatytata
511 acyaaytttacaaycaycayttattccaayattayayttcatttytytatcccatytata
 4Bl casacttoggggaataatytytocottottotgctyctyctotgaasaatattogatoaaa 540
 121
 121
 361 acastcayggcaaaacccacacttgaaaycattttacaatattstatatctayttgcaca 420
 301
 61 tattteggtgeetgaatygaaaaktklaacattageteggagaatggggtaeetgtt 120
 tagtacattatttcctccacagcaacctacctttccagaaggtggaaattgtatttgca 360
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 Pred. No. 0;
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 RESULT 3

AA.158597 standard: c

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AA.156597;

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AA.1661mer's;

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lizi aaraacricorgrayaaararoacarorggyorgracaaagcaagtaggaacacacoc 1075
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man polymacieotide SEQ ID NO 1200 CLNA; 1948 t,

mulat; nootropic; immanosuppressatt; cytostatic; gene therapy; cancer, party, terai inervous system; neuropathy; central nervous system; CNS; klitchmer's; Parkitson's disease; Huntington's disease; haemostatic; acjourophic lateral scherosis; Shy-Drager Syndrome; chemotactic; classificatio; thromolytic; drug screening; arthritis; inflammation; le\_kaemia; ss.

26-DEC-2000; 2000WD-0534263

2- JAH-2000; 2000US-0488725.
25-APR-2000; 2000US-0552317.
69-30L-2000; 2000US-0552315.
19-3UL-2000; 2000US-0520312.
19-4UL-2000; 2000US-0523450.
14-5EF-2000; 2000US-05623151.
11-4CT-2000; 2000US-05623151.

2001-442253/47. LB: AAM39841. Asundi V. Chen R. Ma Y. Wehrman T. Xu C. Xue AJ. Goodrich R. Drmanac RT: yang Y,

Ren F, Wang D; Zhang J;

Novel nucleic acids and polypeptides, useful such as central nervous system injuries. for treating disorders

Claim 1; SEQ ID NO 1200; 10078pp; English.

The invention relates to human nucleic acids (AM15798-AM161369) and the encoded polypeptides (AM36612-AM41211) with mostropic, and incoming the encoded polypeptides are useful in gene therapy. A composition containing a polypeptide or polynucleotide in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system diseases, such as such as peripheral nervous injuries, peripheral neuropathy and incoming the peripheral nervous injuries, peripheral neuropathy and incoming the same central nervous system diseases, such as alizedised fearuropathics and central nervous system diseases, amyotrophic lateral sciences; a Handle of the second of the activity changes Syndrome. Other uses include the utilisation of the activity changes for receptor activity, cancer disgress and inflammation, leukemias and exist the season and construction. Note: The sequence data for this patent did not form part of the printed specification.

Sequence 1946 BP; 614 A; 335 C; 436 G; 563 T; 0 other;

Guery Match Best Local Similarity 186 '65 186 'R9 Score y59: Db 22: Length 1948; Pred. No. 0;

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 | agrossaagaas caattas estat gettes ett gaagas taatta aasta taas 60 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 18
 1101
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 481 - CABACTICGGGGAFAAIGTGTCCCTCTTCTCTCTCTGCTGAAAAATATTCGATCAA
 421
 361
 241 rad yıtıyadırekgasındesəbesi tabatıcı tegitiği titti ekişisəbə diyate 300
1281 TAMBUTBAMTETGAAMASAAMCATAAN CATAATTASTIGSTITITISTISAACAATGATE 1222
 1020 gaaraacttcccglagaatatcacatccgggcytacaaagttaagtagaacacaccc 1079
501 GAATAACTTCCTGTAGAAATATCACATCTGGGCTGTACAAAGCTAAGTAGGACACCC 412
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801 ctgaerctggaectertgeattricettraaaccatttriaactgattcattcattcccc 742
 0; Mismutches
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 Gaps
 802
 719
 562
 539
 1042
 contribution relates to human nucleur soids (AAI57798-AAI61369) and the encoded polypeptides (AAI5642-AAI4623) with mootropic. The encoded polypeptides (AAI5642-AAI4623) with mootropic and contribution and cylositatic activity. The polynuclectides are useful in gene therapy. A composition containing a polypeptide or polynuclectide of the invention may be used to treat diseases of the peripheral nervous system as peripheral nervous injuries, peripheral nervous system diseases, such as a lizabilised and central nervous system diseases, such as a lizabilised and central nervous system diseases, such as a lizabilised and central nervous system diseases, such as a lizabilised and the convenience of the activity prager system and the set induction of the ectivity brager systems and throughous the set induction of the ectivity, cancer dispress and throughous activity, themostatic activity, themostatic activity cancer dispress and throughous screening. Continuing the sequence of the printed convenience data for this patent did not form part of the printed and specification.
 yatch 88.5%; Score 95%; Di
Bust Local Similarity 99.5%; Pred. No. 0;
Matches 1079; Conservative 0; Mismatches
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Tang YI, Wang J, Zhao QA,

Asundi V, Ch Wehrman T, X Goodrich R,

Chen R, Ma Y, Xu C, Xue AJ, R, Drmanac RT;

yang Y,

2001-442253/47. DB: AAM41627. Wang Z, Zhou P,

Ciaim 1; SEQ ID NO 4772; 16075pp; English such as central nervous system injuries -

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treating

disorders

Sequence 1956

9,

613 A: 339 C: 442 G:

564 I; 0 other;

DB 22; Length 1958;

Indels

۲. Gaps

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FAISU763/c
L. AAI60763 Standard; cUNA;
 21-JAN-2000
25-APR-2000
05-JUL-2000
15-JUL-2000
14-SEP-2000
14-SEP-2000
15-CCI-2000
25-NOV-2000
 Human; noctropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; cNS; Altheiner's; Perkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy Drager Syndrome; chemotactic; themokinetic; thromicolytic; drug screening; arthritis; inflammation; buddemine; ss.
 Humo Sapiens.
 Human polynucleotide SEQ ID NO 4772.
 (HYSE-) HYSEQ INC
 26-JUL-20v1
 1-0260153312-A1
 22-001-2601 (first entry)
 16-DEC-2006: 2000W0-US34263
 2000US-0486725.
2000US-0552317.
2000US-0558042.
2000US-0620312.
2000US-0620312.
2000US-06219450.
2000US-0621945.
2000US-0621945.
2000US-0621944.
Ren F. Wang
Zhang J:
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600 actypcaatgtttajgtttggccaaaaactcccagacatcacaatgttgttgggtaac 659
933 actggcaatgtttajgtttggccaaaaactcccagacatcacaatgttgttgggtaac 639
 361
 720 otgaectggagectettgeattitetttaaaaccattttaaetgattgattegtteeg 779
813 CTGACTCTGAGCCTCTTGCAITTCTTTAAAACCAITITTAACTGATTCATTCATTCCTT 754
 900 CTGGCTTTTANTICACTCTGATICTICAACATATAGCTGTGAAATACCTCTT 574
 840 CATICACAIGCACACALAAAGGTITCICAICAIIIIGGTACIIGGAAAAGGAAIAATCI 634
 780 cagcatycetetggtyctttecaaatggystgteataaggeaaageteatteetgaca 639
753 CAGCATGCCCTGGTGCTCTCCCAATGGAATGCAATAGGCAAAAGCTCATTTCCTGACA 694
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RESULT 5

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 Antiarterioscierotic; antiarthritic; heuroprotective; dermatological; inclusiosuppressive; antiallergic; human; CLAD receptor associated protein; CLAP; cytoplashic domain; Lumour necrosis factor; TRF; receptor; superfamily; CD30; homology; TNF; receptor associated factor; TAF; modulator; signalling patthway; diagnosis; NF-kappaB; Jun; kinase; atheroscierosis; multiple sclerosis; arthritis; systemic lupus crythematicus; graft rejection; allergy; graft versus host disease; autoinmune disease; ds.
 Human CD40 receptor associated protein gene.
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(VLAA-) VLAAMS INIERUNIVERSITAIR INSI BIOTECHNOG Pype SMC, Remacle JEFJG, Haylebroeck Dif:

Novel proteins used to treat inflammatory diseases, NF-kappaB related diseases and for improvement of anti-tumor treatments .

Claim 5; Fage 37-35; 46pp; English.

This sequence represents the gene encoding human CAO receptor associated protein (CRAP). CRAP is a functional protein capable of associated protein (CRAP). CRAP is a functional protein capable of the transparence of the Cycopianic domain of CAO and/or other receptors of the CAO. The Freepror is the CAO associated factor (TRAP) proteins. The CAO funding proteins can be used as modulators of the CAO signalling pathway, especially to dispress and treat TRAP-related, CDO-related, NF-Appab related and/or controlling the controlling pathway, especially to dispress and treat TRAP-related, CDO-related, NF-Appab related and/or controlling pathway, especially to dispress and treat TRAP-related, CDO-related, NF-Appab related and/or controlling pathway, especially to dispress the controlling pathway, especially to dispress and treat dispussed include atherosclerosis, controlling pathway to the improvement of anti-tumour dispersion of the proteins can be used to sensitive tumour cells to anti-tumour treatments and to screen for compounds which interfere with the controlling pathway.

Sequence 1920 BP; 559 A; 327 C; 435 G; 557 T; 2 other;

Ę S Query Match 84.3 Best Local Similarity 99.8 Matches 1078; Conservative 84.2%; 99.8%; Score 508; DB 2 Pred. No. 0; 0; Mismatches DB 21; Length 1920; 1; Indels 1; Gaps

Page 6

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RESULT 6
AXXB153/c
ID AXXB153 standard; D
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AC AAX28153;
AC AAX28153;
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DT 16-JUN-1999 (first
16-JUN-1999 (first entry)
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30) tagtacattattcctccaccagcaacctacctttccagaagtgaaattgaattgca 360 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 | 1641 |

1a: Intraatiggeceaancergaatgeagaatgigttgiltaataacattaatett 240
1a: Intraatiggeceaancergaatgeagaatgigttgiltaataacattaatett 240
17a: Intraatiggeceaancergaatgeagaatgigtlegittaataataacattaatett 1725
17a: Intraatiggeceaancergaatgeagaatgigtlegittaataataacattaatett 1725

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12 typastccajcujycagotatasgcacogtujababattyjacogycttypogocttt 160 121 typastccajcujycagotatasgcacogtujababattyjacogycttypogoctttt 160 161: 163AAJCCAGCTGAACCACCGTGAAACCTCTGACAGGCTTTGTGCCCTTTT 1785

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421 gusjacoccajtyatcactayaaatctaccacajtccajttttctatccasgasggt 480
1082 GAASACCCAGGGACATTAGGAATCTACCACAGTCCAGTIIICTAATCCAAGAAGGT 102:
 241 tarigitigaattetgaaaacacaaccataaatcatayttyttettetgiqaaatgate 300
2141 tarigitigaattetgaaaacacaaccataatcatayttyttettetgiqaaatgate 300
1262 TAATOTIGAATICTGAAAACACAACCATAATCATGGTGGTTGTTGTGTGACAATGATC 120
 660 CACCACATCIGGIAACCICICGATCCCITAGATTIGIATCICCIGGAAAIAAACIGIAG 763
 540 asgangttacangengengtrattecangattangstattstytateceangtat 599
962 ANCGANGTTANCANGANGANGTATTCANGATTANGTTATTTANGTTATTTANGTATTTANGTTATTTANGTTATTTANGTTATTTANGTTATTTANGTTATTTANGTTATTTANGTTATTTANGTTATTTANGTTATTTANGTTATTTANG
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 Query Match
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Matches 1078; Conservative
 i agrecomagametronem etteren gritteren granden etter (1888) etter (188
 Sequence 2499 BP; 720 A; 505 C; 567 G; 687 T; 0 other;
 This sequence encouses the topossomerase II Linding protein (TopBP) of
the invention. The TopBP protein is useful as an autoancer agent. TopBP
can do used as the target molecule for anticancer ejent.
 Disclosure; Page 16-19; 28pp; Japanese.
 Kér Topoisomerase II- binding procein - useful as an anticancer
agent
 WPI: 1999-257704/22.
P-PSLB: AAY03182.
 (CHUS) CHUGAI PHARM CO LTD.
(ISUR/) ISURUO I.
 17-SEP-1597:
 17-SEP-1997;
 23-MAR-1999
 JP11075856-A.
 Topulsomerase II binding protein; JophP; anticancer agent; ds
 ispulsamentse if binding protein I coming sequence
 97JP-0251544
 97JP-0251544
 1; score 908; DB 20; Length 2499;
1; Pred. No. 0;
0; Mismatches 1; Indels 1; Gaps
 DB 20; Length 2499;
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 Human; colon cancer; colon cancer antigen; disgnosis; daection; identification; cytostatic; cardioactive, naucoponetrive; vulnerary; immunomodulatory; muscular; gynaecological; gastrolitestinal; nebrotropic; antiniocettve; antibucterial; gene therepy; cound; neural disorder; immune system disorder; muscular disorder; reproductive disorder; gastrolitestinal disorder; renal disorder; pastrolitestinal disorder; renal disorder; infectious disease; cardiovascular disorder; ss.
 Colon cancer associated yene sequences, referred to as colon cancer antigens, useful for the treatment, prevention, and diagnosis of colon disorders such as colon cancer.
 WPI; 2000-587534/55.
P-PSDB; AAB53403.
 Rosen
 12-MAR-1999;
 08-MAR-2000; 2000WO-US05863.
 21-SEP-2000.
 WO200055351-A1
 Homo sapiens.
 Human colon cancer antigen nucleotide sequence SEQ ID
 09-MAR-2001
 AAC98160;
 T 8
160/c
AAC98160 standard; cDNA;
 (HUMA-) HUMAN GENOME SCI INC.
 593
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 710 alasctglagctggactctggagctcttcatttt.tttaaaaccatttttaactgattc
713 araactgragctgactctggagcctctcatttt.tttaaaaccatttttaactgattc
713 araactgragctgactctggagcctcttcatttt.ttttaaaaccatttttaactgatt
 833
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 TIGGGTAAACCACCACCACCTGGTAACCTCTGGTTCGTATCTCTCGCAAAT
 99811ABICECTEGECTETTAATITEACTCTIGALITETECAACAITATACCTTGAAA 549
 CA, Ruben SM;
 (first entry)
 99US-0124270
 ВP
 NO: 170.
 705
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 594
 68B
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Claim 1; Fage 597; 2104pp; English.

ANDYP91 to AAC99761 encode the human ocion carcor associated proteins, called human colon cancer antigens, given in AA69244 to AA894086. The Columbia colon cancer antigens can have cytostatic, cardioactive, muscular; nearror colon cancer antigens can have cytostatic, cardioactive, muscular; nearror cancer antigens can be called the colon cancer antigen gastrointestinal, colon cancer antigens therapy. The colon cancer antigen polynocleotides, and can be used in gene therapy. The colon cancer antigen polynocleotides, and cancer antigens and antibodels to the proteins are useful for the prevention. Colon cancer antigens colon cancer. The polynocleotides and section of associates and research, such as for colon cancer, and diagnosts of colon disorders, such as four all disorders. Immune cay also be used to prevent diseases such as neural disorders. Immune cay also be used to prevent diseases such as neural disorders. Section discribers, mascular disorders, reproductive disorders. Immune system disorders, and cardiovascular disorders. AAC98774 to AAC98772 and AAS9407 represent sequences used in the exemplification of the present constant.

Sequence 1296 bP; 376 A; 250 C; 326 G; 333 T; 11 other;

3 best Local Similarity 59.5 Matches 771; Conservative 306 CARTAITICCICCACAGACAACCTACCTITICCAGAGGICAAAATGTATTGCAACAAT 1142 46.4%; Score 501; DB 21; Pred. No. 1.4e-240; 0; Mismatches 3; Length 1296; Gaps

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\$ Ę, 426 coccequyaccactayaaatctaccacsgiccaytitticiatccagaaggg.caaa 484
1081 CCCCAGIAACAACAAACTACCACGCCAGIIIICIAATCCAGAAGACGTCAAA 1022

g 

545 ASITIACANGCAGCASTIATICCAAGATTANAGTTCATITGTTATCCCATGTATACTGG 902

785 tycciciyiigiliticaaaigyysiyicilaaygoaayticattic yaacaatta 844
781 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 | 1311 |

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XX Human cDNA sequence SEQ ID NO:13

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XX Human; priner; Jetection; diagno

XX Human; priner; Jetection; diagno

XX PPID74617-A2.

XX EP1074617-A2.

XX EP1074617-A2.

XX PJ-JUL-1959; JSJP-0244036.

PR 29-JUL-1959; JSJP-024036.

PR 29-JUL-1959; JSJP-030253.

PR 11-JAM-2000; 2000JP-0118776.

PR 27-AUC-1959; JSJP-0303577.

PR 10-JAM-2000; 2000JP-0118776.

PR 09-JUN-2000; 2000JP-0118776.

PR 18hii S, Sudjyama I, Makimatsu

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 Human cDNA sequence SEQ ID NO:13205.
 660 occessoretgyBascetergatecertsaytttgfateteetgassastattatattata 719
 Ota T, Isogal I, Nishikawa I,
Ishii S, Sugiyama F, Wakamatsu
 Human; primer; detection; diagnosis; untisense therap;
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| 1064 eftgs3[[[[[AATH]]]]] | [[[[]]]] | [[]] | [[]] | []] | [[]] | []] | [[]] | []] | [[]] | []] | [[]] | []] | [[]] | []] | [[]] | [[]] | []] | [[]] | []] | [[]] | []] | [[]] | [[]] | [[]] | [[]] | [[]] | []] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] | [[]] |
 Primer sets for synthesizing polymorluotides, partitions of the first full length chuns defined in the apectitionation, and the first and office the abnormality of the proteins end and tyrical and/or diagnosis of the abnormality of the proteins end and tyrical
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 CALICADAGONOBOCIABABSELICOCASCALLICOGERACLESSBABASICALICADO CARTORARA GORCACAMANAGOTITOCASCALLICAGERACIONARAS VALLACIO 1955
 dayasil K.
A. Kagai K.
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tuil-length obhAs

Claim 8: Sey 16 13205: 2537pp - CD KOM; English

An ine present invention describes primer sets for synthesising 562 Cd full-length chass defined in the specification. Where a primer set comprises: (a) an objected primer and an objected production complementary to the complementary strand of a polymortectide which comprises one of the 560% inducted sequences defined in the specification, where the collipcinclection comprises at least 15 nucleotides complementary to the collipcinclection comprises as least 15 nucleotides or (b) a combination of an objection at an objective which comprises a 5-end complementary to the complementary to the complementary and an objective which comprises a 5-end collipcinclective which comprises a 5-end sequence where the collipcinclective comprises at least 15 nucleotides defined in the specification. The primer sets can be used in antisense therapy and collipcinclective which comprises a 5-end sequence of the full-length chass are used in for synthesising polymoriectides. On the specification which comprises are used in antisense therapy and collipcinclectides. The primers are useful for synthesising polymoriectides detection and/or desposis of the anormality of the full-length chass can be accompanied to the full-length chass can be comprised by the full-length chass. The primers are useful for synthesising polymoriectides of the full-length chass can be considered to the full-length chass can be considered to the full-length chass can be considered to the full-length chass can be considered to the full-length chass can be considered to the full-length chass can be considered to the full-length chassistation of the full-length chassistation of the full-length chassistation of the full-length chassistation of the full-length chassistation of the full-length chassistation of the full-length chassistation of the full-length chassistation of the full-length chassistation of the full-length chassistation of t

Sequence 18+6 BP; 590 A; 327 C; 426 G; 555 I; 0 other;

Query Match 74.1 Best Local Similarity 99.7 Matches 1019: Conservative

74.18; 99.78;

Score 795; DB 22; Length 1898; Pred. No. u; u; Mismatches 2; Indels 1

2; indels 1;

Gairs

£ 5 67 E 5 Ë Ç 77 Ş 67 9 8 8 8 8 두 문 1143 1253 1313 1373 1075 1123 iuis 111 4. 1... 16.7 231 17: 590 553 171 351 alloskicaaaksgaagillacaagcaycagitaliccaagaitagagttcattgigt 55
alloskicaaaksgaagillacaagcaycagitaliccaagailacactcattigigta 54 LILETTIC CANADA LE CARACTE CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CON CARLARCERLASIGUIGAARICEGAAAACACACAAAAACATAGTIGGTITTCTGT 1 1254 1154 . 250 505 954 5.25 1.7 **\$10** 

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RESULT 9
AAH08073/c
ID AAH080
XX AAH080
XX AAH080
XX AAH080
XX AAH080
XX Human
XX Human;
XX Homo s
XX EP1074
XX 28-JUL
PR 29-JUL
PR 11-JAN
PR 02-MAY
PR 09-JUN
XX WPI; 2
XX WPI; 2
XX WPI; 2
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XX The primer
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 The present invention describes primer sets for synthesising 5602 CC full-length cDNAs defined in the specification. Where a primer set CC comprises: (a) an oligo-dT primer and an oligonucleotide comprises one of CC the 5602 nucleotide sequences defined in the specification, where the CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprises at least 15 nucleotides; or (b) a combination CC complementary strand of a polynucleotide which comprises a 5 end cC complementary strand of a polynucleotide which comprises a 5 end cC complementary to the CC complementary strand of a polynucleotide which comprises a 5 end cC conjuncted which comprises a 3 end sequence, where the CC conjuncted which comprises a 3 end sequence, where the CC conjuncted comprises at least 15 nucleotides and the combination of CC the 5 end sequence 3 end sequence is selected from those defined in CC the specification. The primer sets can be used in antisense therapy and CC in gene therapy. The primers are useful for synthesising polynucleotides, CC the full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by CC the full-length cDNAs. The primers allow obtaining of the full-length CDNAs easily without any specialised methods. AAH03166 to AAH13628 and CC AAB5893 represent human amino acid sequences; and AAH13629 to AAH13632 CC CAB5893 represent human amino acid sequences; and AAH13629 to AAH13632
 Primer sets for synthesizing polynucleotides, particularly the 5502 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the
 1025
 Claim 1; SEQ ID 4908;
 02-MAY-2000;
09-JUN-2000;
 full-length cDNAs
 WPI; 2001-318749/34.
 (HELI-)
 27-AUG-1999;
11-JAN-2000;
 29-JUL-1999;
 28-JUL-2000;
 07-FEB-2001
 Human; primer;
 Human cDNA clone (5'-primer)
 26-JUN-2001
 AAH08073;
 AAH08073 standard; cDNA;
 481
 acttcctgtagaaatatcacatctgggctgtacaaagcttaagtaggaacacaccc
 ACTTCCTGTAGAAATATCACATCTGGGCTGTACAAAGCTAAGTAGGAACACACCC
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 HELIX RES INST.
 Isogai T,
 oligonucleotides,
 Sugiyama T,
 2000JP-0118776.
2000JP-0183767.
2000JP-0241899.
 (first entry)
 2000EP-0116126
 invention
 detection; diagnosis;
 99JP-0248036,
99JP-0300253,
 Nishikawa
 2537pp + CD ROM; English
 Wakamatsu
 752
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 SEQ ID
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 of which are
 Hayashi K,
A, Nagai K,
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Query Match

19

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Score

209;

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Length 752

60 C;

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166

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Sequence

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225 A;

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RESULT 10
AAII5311/C
ID AAII5311 Standard: DNA; 444 BR
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AC AAII5311;
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PPN WU200157278-A2.
XX
PPN 09-AUG-2001.
2000US-003207456.
PR 26-MAY-2000; 2000US-003070.
PF 30-JAN-2000; 2000US-0608408.
PR 27-SEP-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0233687.
PR 21-SEP-2000; 2000US-0233687.
PR 21-SEP-2000; 2000US-0236359.
PR 04-CCT-2000; 2000US-023659.
PR 04-CCT-2000; 2000US-0236670.

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CC (SENP). The present sequence CC (SENP). The present sequence CC (SENP). The present sequence CC (SENP). The present sequence CC (SENP). The present sequence CC (SENP). The sequence data for t CC of diseases of the Cervix, no CC Auter The sequence data for t CC of diseases of the Cervix, no CC Auter The sequence data for t CC of diseases of the Cervix, no CC at ftp.wipo.int/pub/published XX

Sequence 4444 BP; 13a A; 60 C;
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 Matches
 The present invention relates to human single exon nucleic acid probes (SENP). The present sequence is one such probe. The SENPs are derived from human HeLa cells. The SENPs can be used to produce a single exon microarray, which can be used for measuring luman gene expression in a sample derived from human cervical epithelial cells. By measuring gene expression, the probes are therefore useful in grading and/or staging of diseases of the cervix, notably cervical cancer.
 of diseases of the cervix, notably cervical cancer.
Note: The sequence data for this patent did not form
specification, but was obtained in electronic format
 1043
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 863 | HICCCAICATITTGGIACTTSGAAAAGGAATAATCTCTIGGCTITITAATITCACTCTT
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 Local Similarity
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 ACATCTGGGCTGTACAAAGCTAAGTAGGA 412
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RESULT 11
AA124484/C
ID AA1244
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Matches 94
 Matches
 Query Match
 03-AUG-2000;
21-SEP-2000;
27-SEP-2000;
 04-FEB-2000;
26-MAY-2000;
30-JUN-2000;
 The present invention relates to human single exon nucleic acid probes (SENP). The present sequence is one such probe. The SENPs are derived from human HeLa cells. The SENPs can be used to produce a single exon microarray, which can be used for measuring human gene expression in a sample derived from human cervical epithelial cells. By measuring gene
 Sequence 691 BP;
 expression, the probes are therefore useful in grading and/or of diseases of the cervix, notably cervical cancer.

Note: The sequence data for this patent did not form part of the specification, but was obtained in electronic format directly
 Claim 25; SEQ ID No 14417; 487pp; English.
 analyzing
 (MOLE-)
 30-JAN-2001;
 09-AUG-2001
 WO200157278-A2
 cervical cancer;
 Probe; human; microarray; gene expression;
 Probe #14417
 12-OCT-2001
 AAI24484;
 AAI24484 standard;
 at ftp.wipo.int/pub/published_pct_sequences
 286
 Local Similarity
 Local Similarity
 aacttcctgtagaaatatcacatctgggctgtac
 sapiens
 2001-488901/53
 genome-derived single exon nucleic acid probes useful for zing gene expression in human cervical epithelial cells -
 MOLECULAR DYNAMICS INC
 2000US-0180312.
2000US-0207456.
2000US-0608408.
2000US-0632366.
2000US-0234687.
2000US-0236359.
 8.7%;
ilarity 100.0%;
Conservative
 Conservative
 2001WO-US00670
 for gene expression analysis in human cervical cell sample
 2000GB-0024263
 (first entry)
 DK,
 230 A; 81 C; 112 G; 268 T; 0 other;
 DNA;
8.7%; 5c.
100.0%; Pr
 Chen W,
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 Score 94;
Pred. No.
 Score 94;
Pred. No.
 Rank DR
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4.7e-37;
 253
 1057
 DB 22;
 4.7e-37;
 cervical epithelial cell;
 Length 691
 Length 444;
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 Gaps
 Gaps
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964 acctgtaataatctcataattacttgatctcttctttaggtagctataatatgggggaat 1023

Best Local Similarity Matches 80; Conserv

Conservative

0;

Mismatches

0;

Gaps

7.48:

Score 80; Pred. No.

DB 20; 4.7e-30;

Length 483;

Query Match

Sequence

483

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123

A; 111 C;

139

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110

7 0 other

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 \begin{smallmatrix} \mathsf{A} \times \mathsf{C} Db
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 RESULI 12
AAX40590/c
 CC human secreted proteins expressed in prostate, and encode the proteins of the signal peptide and an N-terminal fragment of a secreted human gene protein in AANI1716 to AANI1937 respectively. The proteins given represent CC the signal peptide and an N-terminal fragment of a secreted human gene products. They can also be used for products for diagnosis and CC therapy. The proteins obtained may have cytckine activity, cell CC proliferation and differentiation activity, haematopoies is regulating activity, tissue growth regulating activity, haematopoies is regulating activity, tissue growth regulating activity, anti-inflammatory CC thrombolytic activity, receptor/ligand activity, anti-inflammatory cativity, tumour inhibition activity or other activities. The products CC fine sequences can also be used for obtaining corresponding promoter sequences. The nucleic acids encoding the signal peptides can be used f.: CC directing extracellular secretion of a polypeptide or the insertion of a cclypeptide into a cell.
 Human: secreted protein; EST; expressed sequence tag; diagnosis; forensic; gene therapy; chromosome mapping: slynal peptide; prostate; upstream regulatory sequence; cytokine activity; cell proliferation; differentiation; haematopolesis regulation; tissue growth regulation; reproductive hormone regulation; chemotactic; chemokinetic; haemostatic; thrombolytic; anti-inflammatory; tumour inhibition; ds.
 Claim 1;
 New isolated prostate-derived nucleic acids - used to develop products which may have cytokine, immune regulatory, magmatopolesis regulating, anti-inflammatory or tumour inhibition activity
 Duclert A,
 01-AUG-1997;
 P-PSDB;
 (GEST) GENSET
 31-JUL-1998;
 11-FEB-1999
 W09906550-A2
 Homo sapiens
 Human secreted protein 5' EST SEQ
 AAX40590
 AAX40590
 148
 208
 aactteetgragaaatateacatetgggetgtae 1057
 1999-153780/13.
 AACTTCCTGTAGAAATATCACATCTGGGCTGTAC
 Page 298; 675pp; English.
 standard;
 Dumas Milne
 (first entry)
 97US-0905144
 98WO-IB01232
 CDNA; 483
 Edwards
 98
 J, Lacroix B;
 ID
 No: 150
 115
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RESULT 1
AA268548
ID AA268548
AX AA26
AX AA26
AX AA26
AX AA26
AX Huma
KW Huma
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 AA265654 to AA269578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AA269579 to AA277440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side
 Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; diagnosis; single nucleotide polymorphism; SNP; ds.
 qen
 AAZ68598 standard;
 Claim
 WFI; 2000-013267/01
 (GEST) GENSET
 21 -APR-1998;
23 -NOV-1998;
 WO9954500-A2
 Homo
 Human map-related biallelic marker SEQ ID
 10-SEP-2001
 Novel biallelic markers
 21-APR-1999;
 variation
 423
 effects from pharmaceutical agents acting
 26 - OCT - 1999
 treatment
 <u>. .</u>
 The SEQ ID NOS 2852, 2913, 2974, 3035, 3367, are not actually given a sequence
 of the
 agctaagtaggaacacaccc 1079
 Ď
 Page 859;
 Blumenfeld M,
 98US-0109732
 98US-0082614
 99WO-IB00822
 Location/Qualifiers replace(24,C)
/*tag= a
 /standard_name= "single nucleotide polymorphism"
 DNA;
 2745pp;
 47
 used
 Chumakov
 404
 English.
 to construct a high density disequilibrium
 NO: 2947
 on a disease
 in
 3096,
 the
 3157, 3227,
 Sequence Listing
 as well as
 ŀ
 other
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Best Local Similarity

4.4%;

Score Pred

. 47;

DB 21;

Length 47;

Sequence

579

БP,

204

2

97 Ç

79

Ç,

191

Η.,

8 other

Sequence

47

B₽;

11

A

6 C;

6

G; 24

Η, 0

other;

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CC full-length cDNAs defined in the specification, where a primer set CC comprises; (a) an oligo-dT primer and an oligocuclectide complementary CC to the complementary strand of a polynuclectide which comprises one of CC the 5602 nucleotide sequences defined in the specification, where the CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the CC sequence and an oligonucleotide comprising a sequence, where the CC sequence and an oligonucleotide comprising a sequence, where the CC oligonucleotide which comprises a 3-end sequence, where the CC oligonucleotide comprises a 1-east 15 nucleotides; or (b) a combination of the 5-end sequence/3-end sequence is selected from those defined in GC the 5-end sequence/3-end sequence is selected from those defined in GC the 5-end sequence/3-end sequence is selected from those defined in GC the specification. The primers are useful for synthesising polynucleotides, CC detection and/or diagnosis of the abnormality of the proteins encoded by CC the full-length cDNAs. The primers are also useful for the CC detection and/or diagnosis of the abnormality of the proteins encoded by CC the full-length cDNAs. The primers allow obtaining of the full-length CC AAB95893 represent human amino acid sequences; AAB92446 to CC AAB95893 represent human amino acid sequences; and AAB1629 to AAB13622 represent invention.
Matches
 primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the
 WPI;
 01.6
 11-JAN-2000;
02-MAY-2000;
 29-JUL-1595;
27-AUG-1595;
 AAH13035
 Claim 3; SEQ ID 9870;
 09-JUN-2000;
 28-JUL-2000;
 EP1074617-A2
 Homo sapiens
 Human; primer;
 Human cDNA clone (3'-primer)
 26-JUN-2001
 AAH13035;
 full-length cDNAs
 Ishii
 (HELI-)
 27
 -
 2001-318749/34.
 rgrittcrittgasyactralttraaatatraactattreggrigeet
 47;
 HELIX RES
 Isogai T, Ni.
, Sugiyama T,
 Conservative
 99JP-0300253.
2000JF-0118776.
2000JF-0183767.
2000JP-0241899.
 (first entry)
 2000EF-0116126
 detection; diagnosis; antisense therap;, gene therapy; ss.
 99JP-0248036
 INST
 CDNA; 579
 Nishikawa T,
 2537pp +
 Wakamatsu
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 SEQ
 ВP
 CD ROM;
 Mismatches
 Hayashi K, :
 Ħ
 NO: 9870
 English
 Saito K, Y
, Otsuki T;
 C.
 1110
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 Yamamoto
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 Gaps
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40 Db.

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 Дb
 associated protein (CRAP). CRAP is a functional protein capable of cinteracting with the cytoplasmic domain of CD40 and/or other receptors of the tumour necrosis factor (TNF) receptor superfamily such as CD30 and TNF receptor I, where the protein has no homology to TNF receptor associated factor (TRAP) -proteins. The CD40 binding proteins can be used as modulators of the CD40 signalling pathway, especially to used as modulators of the CD40 signalling pathway, especially to 20 diagnose and treat TRAF-related, CD40-related, NF-kappaB related and/or Jun (kinass)-related diseases, and for the improvement of anti-tumour diseases. Diseases which may be treated include atherosclerosis, graft rejection, graft versus host disease, allergy, and autoimmune disease. The proteins can be used to sensitize tumour cells to anti-tumour treatments and to screen for compounds which interfere with the interaction of the proteins with other protein components of the
Query Match
Best Local Similarity
Matches 36; Conserv
 Matches
 immunosuppressive; antiinflammatory; immunosuppressive; antiallergic; mouse; CD40 receptor associated protein; CRAP; cytoplasmic domain; tumour necrosis factor; TNF; receptor; superfamily; CD30; homology; TNF receptor associated factor; TRAF; modulator; signalling pathway; diagnosis; NF-KappaB; Jun; kinase; atherosclerosis; multiple sclerosis arthritis; systemic lupus erythematosus; graft rejection; allergy; graft versus host disease; autoimmune disease; ds.
 Claim 10;
 Novel proteins used to treat inflammatory diseases, NF-kappaB related diseases and for improvement of anti-tumor treatments
 P-PSDB; AAY56020
 Sequence 1312
 (VLAA-) VLAAMS
 29-APR-1998;
 28-APR-1999;
 04-NOV-1999
 W09955859-A2
 Mus musculus
 Mouse CD40 receptor associated protein gene.
 15-MAR-2000
 AA247119 standard; cDNA; 1312
 Local Similarity
 sequence represents the gene encoding mouse CD40 receptor
 2000-062029/05
 Page 41-43; 48pp; English
 Remacle JEFJG,
 or NF-kappaB related
 Conservative
 (first entry)
 вP;
 INTERUNIVERSITAIR INST BIOTECHNOG.
 98EP-0201392
 99WO-EP03025
 359
 4.2%;
 3.3%;
 Α,
 279
 Huylebroeck DFE;
 0;
 Score 36; DB
Pred. No. 4.8
0; Mismatches
 Score 45; DB 22;
Pred. No. 1.5e-12;
 c;
 Mismatches
 pathway
 352 G;
 322 T;
 DB 21; I
 0 other;
 Length 1312;
 Length 579;
 Indels
 0;
 sclerosis;
 Gaps
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Conservative

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Indels

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Gaps

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149 agittictaatccaagaagg 169 agittictaatccaagaagg 479

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RESULT 1
AAH33140
ID AAH3
 \begin{array}{l} \mathbf{x} \mathbf{A} \mathbf{X} \mathbf{D} Matches
 Query Match
Best Local Similarity
 expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. Assi7196 to AAH37204 and AAB77789 represent sequences used in the exemplification of the
 the proteins are collectively known as colon cancer antigens. The occancer entigens have cycostatic actify and can be used in gene therapy and vaccine production. N and P may be used in the prevention diagnosis and treatment of diseases associated with inappropriate P
 present invention.

N.B. Payes 666 to 682 and page 7053 of the missing at time of publication, meaning no SEQ ID 63:1027 to 1052, 7921 and 7922.
 AAH3254: to AAH37195 and AAG73514 to AAG77788 represent human cancer associated nucleic acid molecules (N) and proteins (P).
 useful for preventing, diagnosing and/or treating colorectal cancers -
 Sequence
 Claim 1; Page 2344; 9803pp; English
 WPI; 2001-235357/24.
 29-SEP-1999;
03-NOV-1999;
 05-APR-2001
 03-SEP-2001
 AAH33140 standard; cDNA; 417
 Nucleic acids encoding 4277 human
 P-PSDB;
 (HUMA+) HUMAN GENOME SCI INC
 28-SEP-2000; 2000WO-US26524
 WO200123920-A2
 Homo sapiens
 colorectal carcinoma;
 Human; colon cancer;
 Human colon cancer
 AAH33140;
 417
 Barash SC,
Conservative
 (first entry)
 BP; 118
 99US-0157137
99US-0163280
 antigen encoding cDNA SEQ ID NO:156
 Α.
 colon cancer antigen; chromosome X; ss.
 100.0%;
 Birse
 61 C; 65 G; 172
0,
 Score 21;
Pred. No.
 CE,
Mismatches
 Rosen CA;
 DB 2
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 1 other
 sequence listing were sequences are present
 diagnosis; detection;
 22; Length 117;
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Gaps
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RESULT 17
AAV55038
ID AAV550
AX AAV550
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 δÃ
 This sequence encodes the human XIAP protein, which is a inhibitor of C apoptosis protein (IAP), and can be used in the method of the invention. The method is for enhancing apoptosis in cells from a mammal with proliferative disease by treatment with a compound that inhibits is compounds are used to treat proliferative diseases, specially cancers of CC compounds are used to treat proliferative diseases, specially cancers of CC covary, breast, pancreas, lymph nodes, skin, blood, lung, brain, kidney, CC rectum, cervix or endometrium, particularly to increase their sensitivity CC rectum, cervix or endometrium, particularly to increase their sensitivity CC to chemotherapeutic agents. High levels of the IAP or NAIP proceins are CC detected in many cancers and are associated with poor prognosis, CC resistance to chemotherapeutic agents and mutations in p53 (it is suggested that wild-type p53 suppresses transcription of the IAP or NAIP CC genes). Transgenic animals are used for testing the effects of antisense cx oilgonucleotides and for screening for the inhibitors.
 Query Match
Best Local Similarity
Matches 21; Conserv
 Baird S,
Tsang B;
 Inducing apoptosis in proliferative mammalian cells with inhibitor of IAP or NAIP polypeptide - also methods for prognosis based on presence of IAP and NAIP, specifically applied to cancers involving
 2498
 Claim 13; Fig 1; 147pp; English
 p53 mutations
 13-FEB-1997;
 20-AUG-1998.
 WO9835693-A2
 proliferative
 Human XIAP coding
 AAV55038;
 AAV55038 standard; cDNA; 5232
 (TOYU)
 13-FEB-1998;
 Homo sapiens
 13-NOV-1998
 Sequence 5232 BP; 1579 A; 861 C; 1062 G; 1728 T; 2 other;
 459 agtttttctaatccaagaagg 479
 1998-467164/40
DB; AAW69294.
agtttttctaatccaagaagg 2518
 UNIV OTTAWA
 Korneluk R,
 Conservative
 apoptosis protein; apoptosis enhancer; NAIP polypeptide; disease; IAP; therapy; cancer; human; XIAP protein; ss.
 (first entry)
 97US-0800929
 98WO-IB00781
 Location/Qualifiers
34..1527
/*tag= a
 /*tag= a
/product= XIAP
 sequence
 1.5., 100.0%; 1.
 Liston P,
 Score 21; pred. No.
 Mismatches
 Mackenzie AE,
 DB 19; Length 5232;
 6
 0;
 Pratt
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 0
 Gaps
 0;
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RESULT

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RESULI 19
AAC34438/c
ID AAC344
XX
AC AAC344
XX
DI 17.OCT
XX
AC Arabid
KW Hybrid
KW protei
 Вb
 20
 Matches
 Guery Match
Best Local Similarity
 The present sequence is one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. No ORF has yet been conclusively identified within the present sequence. The 5' ESTs were prepared from total human RNAs or polyA RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors.
 New nucleic acid that is a 5' expressed sequence tay (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures
 WPI;
 Arabidopsis thaliana DNA fragment SEQ ID NO: 6656
 Claim 1;
 Dumas Milne Edwards J,
 26-FEB-1999;
 21-FEB-2000; 2000EP-0200610
 06-SEP-2000
 EP1033401-A2
 gene
 Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
 Human secreted
 06-OCT-2000
 AAC31359 standard; cDNA;
 Hybridisation assay; genetic mapping; gene expression control; protein identification; signal transduction pathway;
 AAC34438 standard; DNA;
 Sequence
 (GEST) GENSET
 Homo
 17-OCT-2000
 therapy; chromosome mapping; ss
 2000-500381/45.
 237
 SEQ ID 35434; 71pp + CD-ROM; English
 Conservative
 BP;
 (first entry)
 (first entry)
 99US-0122487
 protein 5' EST, SEQ ID NO: 35434
 59
 100.0%; ...
 A; 72 C;
 577
 Duclert A,
 Score 20;
Pred. No.
 65 G;
 Mismatches
 Giordano
 37
 T; 4 other;
 DB 21:
 Length 237;
 Indels
 0
 Gaps
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| י<br>א קי<br>א א א א א<br>א א א א א                           | קר ה ה ה<br>קר ה ה ה ה                                                       | יי<br>קסי<br>מסי<br>מסי<br>מסי                                | ז מי מי מי מי<br>ג ג מי מי מי מי מי מי מי מי                            | ש ט ט ט ט ט ט ט ט ט ט ט<br>א א א א א א א א א                          | ר<br>ל מ סי סי סי סי מ<br>ל מ א א א א א                                                | יסססססססססססט<br>: ממממממממ                                                                           | יי ס ס ס ס ס ס ס ס ס ס ס ס ס ס ס ס ס ס<br>א א א א                                                                                                                                             | X X X X X X X X X X X X X X X X X X X                                                                                                                             |
|---------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| -01397<br>-01398<br>-01398<br>-01403<br>-01403                | 01394                                                                        | 01394<br>01394<br>01394<br>01394<br>01394                     | 013854                                                                  | 013639<br>013639<br>013678<br>013727<br>013757<br>013777              | 013422<br>013423<br>013476<br>013494<br>013512                                         | 013246<br>013246<br>013246<br>013248<br>013248<br>013248<br>013248<br>013248<br>013421                | 99US-0125788<br>99US-0126264<br>99US-0126785<br>99US-0127462<br>99US-0128234<br>99US-0128714<br>99US-0128717<br>99US-0130077<br>99US-0130077<br>99US-0130071<br>99US-01300891<br>99US-0131049 | 0301439.<br>0121825.<br>0123548.                                                                                                                                  |
|                                                               |                                                                              |                                                               |                                                                         |                                                                       |                                                                                        |                                                                                                       |                                                                                                                                                                                               | termination sequence;                                                                                                                                             |
|                                                               |                                                                              |                                                               |                                                                         |                                                                       |                                                                                        |                                                                                                       |                                                                                                                                                                                               | ence; ss.                                                                                                                                                         |
|                                                               |                                                                              |                                                               |                                                                         |                                                                       |                                                                                        |                                                                                                       |                                                                                                                                                                                               |                                                                                                                                                                   |
|                                                               |                                                                              |                                                               |                                                                         |                                                                       |                                                                                        |                                                                                                       |                                                                                                                                                                                               |                                                                                                                                                                   |
| ,<br>מממססס<br>ממממג                                          | ק<br>קקקקקק<br>קקקקק                                                         | י סיסיסיק<br>געעעעע                                           | י י י י י י י י י י<br>ג א א א א א א                                    | טיטיטיטיטי<br>תתתתתתת                                                 | י סי סי סי סי סי סי<br>מאא א א א א א א א                                               | ממקס המה המה<br>ממא א א א א א א א                                                                     | י סי טי טי טי טי טי טי טי טי<br>א א א א א א א א א א א א א                                                                                                                                     | ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט                                                                                                                             |
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 24-SEP 1999
28-SEP 1999
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 effects from pharmaceutical agents acting on a disease as well as trastmant
 AAH69026 standard; cDNA; 338
 Sequence 19
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 from the present invention.
 19 CAGGAATGTGTTCGTTTAA 1
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2001-375006/39
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2000US-0203791.
2000US-0210600.
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09-JUN-2000;
 progression of cervical cancer or a premalignant condition in a patient, and to select and/or assess the efficacy of a compound or therapy for inhibiting cervical cancer in a patient. The nucleic acids may also be
 The invention relates to novel genes (AAH6873-AAH7333) associated with cervical cancer with cytostatic activity. The nucleic acids and encoded polypeptides are useful: to assess if a patient is afflicted with cervical cancer or has a pre-malignant condition; to monitor the
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 218 acagcaaacctacctttcc 236
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 isolated nucleic acid for diagnosing and treating the cancer -
 2001-375006/39
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 Page 626; 1051pp; English.
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2000US-0203791.
2000US-0210600.
2000US-0220114.
 (first entry)
 Conservative
 BP; 89
 Deeds J,
 9903-0169681
 cytostatic;
 1051pp; English.
 Þ,
 100.0%;
 marker
 79
 Berger A,
 351
 C;
 0
 98
 Score 19;
Pred. No.
 73
 pre-malignant condition;
 nucleic acid 3170
 ç;
 Mismatches
 97 T;
 ×
 15:
 ¢
 other:
 0;
 Length
 Indels
 gene therapy;
 0;
 Gaps
 SS
```

0

inhibiting cervical cancer in a patient. useful for gene therapy.

cervical cancer or has a pre-malignant condition; to monitor the progression of cervical cancer or a premalignant condition in a patient; and to select and/or assess the efficacy of a compound or therapy for

The nucleic acids may also

The invention relates to novel genes (AAH68727-AAH73383) associated with cervical cancer with cytostatic activity. The nucleic acids and encoded polypeptides are useful: to assess if a patient is afflicted with

SQX

Sequence

351

B₽;

86

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78

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73

ç;

102

<del>:</del> ]

0 other;

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밁
 Ş
 В
 Ş
 Query Match
Best Local S
Matches 19
 Query Match
Best Local
 Matches
 08-DEC-1999;
21-DEC-1999;
14-MAR-2000;
12-MAY-2000;
09-JUN-2000;
 The invention relates to novel genes (AAH68727-AAH73383) associated with cervical cancer with cytostatic activity. The nucleic acids and encoded polypeptides are useful: to assess if a patient is afflicted with cervical cancer or has a pre-malignant condition; to monitor the progression of cervical cancer or a premalignant condition in a patient; and to select and/or assess the efficacy of a compound or therapy for inhibiting cervical cancer in a patient. The nucleic acids may also be
 WPI;
 Sequence
 (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC
 08-DEC-2000; 2000WO-US33312
 Cervical cancer;
 Human cervical cancer marker
 19-SEP-2001
 AAH70689;
 AAH70689 standard;
 WO200142467-A2
208
 319
 24
 isolated nucleic acid for diagnosing and treating cervical cancer for assessing and detecting compounds for treating the cancer \boldsymbol{\cdot}
 2001-375006/39.
 sapiens
 19; Conservative
 l Similarity
19; Conser
 494
 æ
 gene therapy.
 99US-0171350.
2000US-0189315.
2000US-0203791.
2000US-0210600.
 BP;
 1.8%;
llarity 100.0%;
Conservative
 (first entry)
 Deeds J,
 2000US-0220114
 99US-0169681
 128 A;
 cytostatic;
 CDNA;
 1.8%;
 Berger A,
 106 C;
 494
 0;
 0,
 Score 19;
Pred. No.
 nucleic acid
 Score
Pred.
 pre-malignant condition;
 ВP
 114 G;
 English.
 Mismatches
 Mismatches
 Zhao
 19;
No.
 146
 ×
 DB
15;
 DB
15;
 T:
 1963.
 0
 0;
 0;
 other;
 Length 494;
 Length 351;
 Indels
 Indels
 gene therapy;
 1
 0;
 0
 Gaps
 S
 . 0:
 0
```

```
AAH72662/c
ID AAH72662 standard; cDNA; 454 BP
XX
AC AAH72662:
XX
DT 19-SEP-2001 (first entry)
XX
BT 19-SEP-2001 (first entry)
XX
Cervical cancer; cytostatic; pr
XX
Cervical cancer; cytostatic; pr
XX
CS Homo sapiens.
XX
OS Homo sapiens.
XX
OS Homo sapiens.
XX
OS Homo sapiens.
XX
PP 08-DEC-2000; 2000W0-US33312.
XX
PR 08-DEC-1999; 99US-0171350.
PR 21-DEC-1999; 99US-0171350.
PR 21-DEC-1999; 2000US-0203791.
PR 21-DEC-1999; 2000US-0203791.
PR 21-DEC-1999; 2000US-0203791.
XX
OB-DEC-1999; 2000US-0203791.
XX
PA (MILL-) MILLENNIUM PREDICTIVE M
XX
SCHlegel R, Deeds J, Berger A
XX
PR (MILL-) MILLENNIUM PREDICTIVE M
XX
AC (MILL-) MILLENNIUM PREDICTIVE M
XX
Claim 1; Page 787; 1051pp; Engl
XX
The invention relates to novel
CC cervical cancer with cytostatic
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
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CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC cervical cancer or has a pre-ma
CC condibiting cervical cancer in a
CC cervical cancer or has a pre-ma
CC inhibiting cervical cancer in a
CC cervical cancer or has a pre-ma
CC condibiting cervical cancer in a
Q
 В
 Query Match
Best Local
 Matches
 The invention relates to novel genes (AAH68727-AAH73383) associated with cerviced cancer with cytostatic activity. The nucleic actids and encoded polypeptides are useful: to assess if a patient is afflicted with cervical cancer or has a pre-malignant condition; to monitor the progression of cervical cancer or a premalignant condition in a patient; and to select and/or assess the efficacy of a compound or therapy for inhibiting cervical cancer in a patient. The nucleic acids may also be
 Human; secreted protein; gene therapy; protein therapy; cancer; weight; tumour; chromosome mapping; forensic; haematological disease; allergy; inflammation; cell proliferation; viral infection; wound healing;
 Human
 18-MAY-1999
 AAX22252
 Sequence 494 BP; 147 A; 101 C;
 Claim 1; Page 787; 1051pp; English.
 249
 319
 (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC
 26
 isolated nucleic acid for diagnosing for assessing and detecting compounds
 ACAGCAAACCTACCTTTCC
 acagcaaacctacctttcc 337
 secreted protein gene 42 clone HSNAD72
 Similarity
19; Conser
 standard; DNA;
 Conservative
 (first entry)
 100.08; F
 Berger A,
 861
 231
 ВΡ
 Score 19;
Pred. No.
 pre-malignant condition;
 nucleic acid 3536
 ВP
 101 G;
 Mismatches
 compounds for treating the cancer -
 Zhao
 143 T;
 DВ
15;
 22;
 2 other;
 0;
 preservative;
 Length 494
 Indels
 gene therapy;
 0;
 Gaps
 SS.
 0
```

Matches

Conservative

100.0%; F

Score 19; Pred. No.

15; 20;

Length 861;

Mismatches

0

Indels

0

Gaps

0

Query Match Best Local Similarity

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The invention relates to nucleic acid sequences (AAX22211 to AAX22282)
CC encoding human secreted proteins (AAY0183) to AAY01454). The secreted protein gene sequences are deposited with the ATCC under deposit number CC ATCC 209138, 209139 or 209141 Host cells containing vectors comprising CC the nucleic acid sequences are used for the recombinant expression of CC the secreted proteins. The polynucleotide and amino acid sequences are used for the recombinant expression of CC useful for preventing, treating or ameliorating medical conditions e.g. CC by protein or gene therapy. Pathological conditions can be also diaynosed by determining the amount of the new polynucleotides in a sample or by the presence of mutations in the new polynucleotides. The nucleic acid can mapping; as antisense and triplex-forming therapeutics; in gene CC and mapping; as antisense and triplex-forming therapeutics; in gene CC therapy; for (forensic) identification of individuals; as molecular veight markers; to identify related sequences or specific mRNA; in CC preparation of oligomers and to raise anti-DNA antibodies. Antibodies are useful as immunoassay reagents (including for in vivo imaging) and CC wide range of disorders may be treated with the polynucleotide and CC wide range of disorders may be treated with the polynucleotide and CC wide range of disorders may be treated with the polynucleotide and CC allergy, inflammation, cancer or other forms of cell proliferation, viral CC or other infections. The sequences may also be useful in wound healing, CC appetite, behaviour etc. and as food additive or preservative. The corresponts a gene encoding a human secreted protein CC (see descriptor line for gene number and close identification).
 22-JUL-1997
18-AUG-1997
18-AUG-1997
18-AUG-1997
18-AUG-1997
18-AUG-1997
18-AUG-1997
18-AUG-1997
18-AUG-1997
18-AUG-1997
 Duan R, Fe
Greene JM,
 16-JUL-1997;
22-JUL-1997;
22-JUL-1997;
 Claim 4; Page 190-191; 251pp; English.
 binding
 WPI; 1999-132234/11.
P-PSDB; AAY01424.
 New nucleic acids encoding secreted human proteins - potentially useful for treating and diagnosing diseases and identifying specific
 (HUMA -)
 28-JAN-1999
 WO9903990-A1
 16-JUL-1997
 16-JUL-1997
 16-JUL-1997
 18-AUG-1997;
16-JUL-1997;
 15-JUL-1998
 agents
 HUMAN GENOME SCI INC
 ng P,
Hu J,
 97US-0055724.
97US-0055725.
97US-0055726.
 97us-0055989
97us-0056359
 97US-0055952
97US-0055985
 97US-0055683.
 97US-
 97US-
 97US-
 97US-
 97US-0055946
 97US-0053441.
 97US-
 97US-0052872.
 97US-
 97us-005266
 97us-0056361
 98WO-US14613.
 Ferrie AM,
 Z.
 0052873
 0053440.
 0052875.
 for gene number and clone identification).
 Ľ,
 Rosen CA,
 Florence KA,
 Ruben SM,
 Fouad J;
 Young PE;
 k
```

861 BP;

222

A;

226 C;

164 G;

245 T;

4 other;

17-DEC-1995 AAQ78892;

(first entry)

```
RESULT :
AAQ78892
 RESULT 1
AAN71405
X D X A X E
 δÃ
 В
 В
 δÕ
 Matches
 Query Match
Best Local S
 A DNA sequence coding for a heterologous polypeptide which can be expressed in and secreted from filamentous fungi is claimed. Pref the DNA sequence codes for bovine preprochymosin, M. meihei preprocarboxyl protease or A. niger preproglucoamylase. Also new are vectors consisting of the DNA sequence plus an operably-linked signal sequence. The vectors may also include a sequence which increases transformation efficiency, e.g. ANS-1.
 1161 trattttaaatattaacta 1179

 with secretion of prod. from
transformed fungi

 AAQ78892 standard;
 Sequence 1864 BP;
 Example; Fig 13; 45pp; English.
 Cullen D,
 New DNA sequences
 WPI; 1587-095049/14
 07-JUL-1986;
29-AUG-1985;
 EP215594-A
 Mucor miehei
 Trichoderma; ds
 Enzyme; fungal expression vector; Aspergillus expression vector;
 Sequence of ANS-1 which increases transformation efficiency.
 18-APR-1991
 (GENE-) GENENCOR INC
 27-AUG-1986;
 25-MAR-1987.
 AAN71405
 AAN71405
 730 agcctcttgcattttcttt 748
 357 ageotettgeattttcttt 375
 44 ttattttaaatattaacta 62
 28
 27
 l Similarity
19; Conserv
 standard; DNA; 1864
 Gray GL,
 Conservative
 (first entry)
 86US-0882224
85US-0771374
 86EP-0306624
 786 A; 210 C; 44 G;
 for
 DNA; 1864
 100.0%;
 Hayenga
 expressing
 0;
 ВР
 Score 19;
Pred. No.
 ΚJ,
 ng polypeptide in filamentous fungi
the cells, and new vectors and
 Mismatches
 Lawlis
 732 T;
 DB 8;
15;
 92
 0,,
 Length 1864;
 other;
 indeis
 0
 Gaps
 0;
```

```
RESULT 29
AAF92529/C
ID AAF925
XX AAF925
XX 16-MAY
DT 16-MAY
DT 16-MAY
XX Human:
KW taste
KW taste
KW taste
KW taste
XX Rattus
XX RACTUS
 SXCCCCCCCCCCCCX PX PF TX DX PX PX PX PX PX VX XX XX E
 δÃ
 밁
 The sequence represents the A. nidulans ANS-1 sequence which is cincluded in the construction of transformation vectors for recombinant protein expression and secretion from a filamentous creambing the protein expression and secretion from a filamentous creambing the protein expression and secretion from a filamentous creambing the protein expression and secretion from a filamentous containing (i).DNA encoding a heterologous which provide a vector containing (i).DNA encoding a heterologous polypeptide (chymosin, prochymosin, preprochymosin, Aspergillus niger glucoamylase, Humicola grisea glucoamylase or M. miehei carboxyl protease) and (ii) a secretory signal peptide, and a carboxyl protease) and (ii) a secretory signal peptide (ii) and ii) and iii)
 Query Match
Best Local
 Matches
 1161
 15-MAR-2001
 WO200118050-A2
 Rattus
 numman; rat; mouse; T2R; taste receptor; G-protein coupled receptor; taste transduction G-protein coupled receptor; identification; tongue; taste sensory neuron; taste cell; taste modulator; food; taste signalling pathway; ds.
 Rat T2R02 nucleotide sequence
 AAF92529 standard;
 Sequence 1864 BP; 819 A; 193 C; 120 G; 732
 Vectors and DNA for expressing polypeptide(s) in filamentous funging include secretory signal sequences that are native or foreign to heterologous polypeptide(s), such as chymosin or glucoamylase.
 WPI;
 29-AUG-1985;
07-JUL-1986;
 16-MAY-2001
 Disclosure;
 Berka
 (GEMV) GENENCOR INT INC
 27 - AUG - 1986;
 23-NOV-1994
 Aspergillus
 Aspergillus
 Vector; transformation;
 44 ttattttaaatattaacta 62
 Local Similarity nes 19; Conser
 1994-359750/45
 ttattttaaatattaacta 1179
 RM,
 Cullen D,
 1.8%;
ilarity 100.0%;
Conservative (
 Fig 13A-13B;
 nidulans
 nidulans ANS-1
 (first entry)
 85US-0771374
86US-0882224
 86EP-0201751
 DNA; 2438
 Gray GL,
 protein secretion;
 50pp; English.
 partial
 0;
 Score
Pred.
 SEQ
 Mismatches
 Hayenga KJ,
 ID NO:80.
 . 19;
 sequence.
 DB
15;
 T; 0
 ds
 15;
 Lawlis VB
 0;
 other;
 Length 1864;
 Indels
 1
 0;
 Gaps
 9
 RESULT 3
ΟĎ
 26-DEC-2000; 2000WO-US34263
 26-JUL-2001
 215
```

```
Query Match
Best Local Similarity
Throhes 19; Conserv
 AAF92502 to AAF92572 represent nucleic acids which encode taste transduction G-protein coupled receptors designated T2R proteins.

AABB7731 to AABB7824 represent T2R proteins, and AABB7825 to AABB7830 represent T2R family consensus sequences from the present invention. The T2R proteins are taste modulators. The nucleic acids are useful as probes for the identification of taste cells, as the nucleic acids are specifically expressed in taste cells. They also serve as tools for the generation of taste topographic maps that elucidate the relationship between the taste cells of the tongue and taste sensory neurons leading to taste centres in the brain. The taste modulators are useful for pharmacological and genetic modulation of taste signalling pathways. Modulatory compounds comprising T2R proteins can therefore be used in food and pharmaceutical industries to customise taste, for e.g. to decrease the bitter taste of food or drugs.
 (REGC)
 chemokinetic;
leukaemia; ss
 peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral scierosis; Shy-Drager Syndrome; chemotactic;
 Nucleic acids encoding the T2R family of G-protein coupled taste receptors, useful for identifying taste modulators that can be used food and pharmaceutical industries to customize taste, for e.g. to decrease the bitter taste of food.
WO200153312-A1
 Human polynucleotide SEQ ID NO 1516
 Sequence
 Claim 51; Page 190-191; 249pp; English
 10-SEP-1999;
22-FEB-2000;
 Homo sapiens
 Human;
 22-OCT-2001
 AAI59313;
 AAI59313 standard; cDNA; 2706
 Zuker CS,
 08-SEP-2000;
 899 tcttggctttttaatttca 917
 TCTIGGCTTTTTAATTTCA 197
 2001-211396/21
DB; AAB87782.
 nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
 UNIV CALIFORNIA.
US DEPT HEALTH A
 2438
 Adler JE,
 DEPT HEALTH & HUMAN
 (first entry)
 Conservative
 99US-0393634
2000US-0510332
 2000WO-US24821
 thrombolytic; drug screening; arthritis;
 BP; 714 A; 459
 1.8.
 Ryba N,
 0;
 Score 19;
Pred. No.
 C; 470 G;
 дB
 Mueller K,
 SERVICES
 Mismatches
 795 T;
 DB
15
 22;
 Ċ.
 0 other
 Length 2438;
 3
 Indels
 inflammation
 0;
 Gaps
 'n
```

0;

```
RESULT 31
AAX13252;
ID AAX13252;
XX
AC AAX13252;
XX
DT 19-MAR-1999 (first AX)
DE Enterococcus faecali.
XX
DE Enterococcus faecali.
XX
DE Enterococcus faecali.
XX
DE Enterococcus faecali.
XX
Enterococcus faecali.
XX
Waccine; attenuation
XX
XX
PM W09850555-A2.
XX
PD 12-NOV-1998.
PF 04-MAY-1998; 98WO-
 ₽
 Š
 Query Match
Best Local S
Matches 19
 19-JUL-2000;
03-AUG-2000;
14-SEP-2000;
19-OCT-2000;
29-NOV-2000;
 21-JAN-2000;
25-APR-2000;
09-JUL-2000;
 1614 GAGCCTCTTGCATTTTCTT 1596
 system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening,
 The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat disease of the peripheral nervous exertem.
 Enterococcus faecalis; contig;
 Tang
Wang
Zhao
 Sequence 2706
 Note: The sequence data
 Claim 1;
 Novel nucleic acids and polypeptides, useful such as central nervous system injuries -
 specification
 assays for receptor activity, arthritis and
 729 gagcctcttgcattttctt 747
 (HYSE-)
 .N.S disorders.
 QΑ,
 2001-442253/47.
DB; AAM40157.
 19; Conservative
 HYSEQ INC.
 Wang 2,
Zhou P,
 attenuation; computer readable medium;
 SEQ ID NO 1516; 10078pp; English.
 2000US-0488725.

2000US-0552317.

2000US-05598042.

2000US-0620312.

2000US-0653450.

2000US-065315.

2000US-065313.

2000US-065313.
 faecalis genome contig SEQ ID NO:315
 (first entry)
 BP;
 98WO-US08985
 788
 Asundi V, Chen R, Ma
Wehrman T, Xu C, Xue
Goodrich R, Drmanac
 DNA;
 Α;
 4605
 559
 for this patent did
 0;
 Score 19;
Pred. No.
 Ç
 ВP
 detection; Enterococcal infection;
 604
 Mismatches
 <u>ი</u>
 Ma Υ,
Xue AJ,
 755
 16
 RT;
 Ţ,
 22;
 not form part of
 inflammation,
 Qian XB,
Yang Y,
 tor
 0
 0;
 Length 2706;
 other;
 treating disorders
 Indels
 Ren
 leukaemias and
 Ţ
 0;
 the printed
 ۲.
 Wang
 Gaps
 D
 0
```

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RESULT
AAH33754
 DЬ
 δõ
 Query Match
Best Local
 Matches
 commercial importance. The products can be used to detect the presence of Enterococcus faecalis in samples and no detect the presence diagnosing Enterococcal infection in an animal and monitoring progression of disease, and for identifying agents which can be used to modulate the growth or pathogenicity of Enterococcus faecalis, or another related organism, in vivo or in vitro. In particular the polypeptides encoded by the Enterococcus faecalis nucleotide sequences can be used in vaccines to prevent or attenuate an Enterococcus inforcaccan be used in vaccines to prevent or attenuate an Enterococcus inforcaccan.
 29-SEP-1999;
03-NOV-1999;
 3492 ACCATITTAACTGATTCA 3474
 A computer readable medium has been developed which has recorded on it 982 nucleotide sequences isolated from the Enterococcus faecalis genome AAX12938 to AAX13919 represent these nucleotide sequences which are primary nucleotide sequences, also known as contigs. The computer-based system can identify fragments of the Enterococcus faecalis genome with
 14-NOV-1997;
06-MAY-1997;
16-MAY-1997;
 28-SEP-2000; 2000WO-US26524
 05-APR-2001
 colorectal carcinoma;
 Human;
 Human
 03-SEP-2001
 AAH33754 standard; cDNA;
 Homo
 AAH33754;
 Claim 1;
 Sequence 4605
 use
 752 accatttttaactgattca 770
 infection
 Nov
 WPI;
 Barash SC,
 (HUMA-) HUMAN GENOME SCI INC
 used
 32
 isolated Enterococcus faecalis polynucleotides and polypeptides sed to develop products for the detection of Enterococcus and fo in vaccines for prevention or attenuation of Enterococcus
 sapiens
 colon cancer antigen encoding cDNA SEQ ID NO:810.
 colon cancer;
 l Similarity
19; Conserv
 Page 1397-1399;
 Dillon PJ,
 Conservative
 (first entry)
 BP; 1371 A;
 9705-0066009.
9705-0044031.
9705-0046655.
 99US-0157137
99US-0163280
 colon
 100.0%;
 SS.
 Kunsch CA;
 291
 2084pp; English.
 1019
 cancer antigen; diagnosis; detection;
 0;
 Score 19;
Pred. No.
 98
 C;
 Mismatches
 707
 G;
 DВ
16;
 1501
 20;
 <u>ب</u>
:-
 0,
 Length 4605;
 7 other;
 Indels
 0;
 and for
 Gaps
```

0;

WPI; 2001-235357/24

Ruben SM,

Barash SC,

Birse

CE,

Rosen

(HUMA-) HUMAN GENOME SCI INC

P-PSDB; AAG74323

IJ

0

```
RESULT 3
 ₽
 δÃ
 Query Match
Best Local S
 Tango-77; human; II-lra; cytokine superfamily; inflammation; inhibition; interleukin-1 receptor; II-lR; regulation; astma; rheumatoid arthritis; chronic myeloganous leukaemia; psoriasis; inflammatory bowel disease; growth factors; treatment; II-l receptor complex; BAC; ss.
 cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps. by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent sequences used in the exemplification of the prevention.
New isolated nucleic acid encoding the new used to inhibit inflammation and to screen
 WPI; 1999-153692/13.
 02-JUL-1998;
04-AUG-1997;
 03-AUG-1998;
 WO9906426-A1
 Homo sapiens
 Human IL-1ra BAC
 22-JUN-1999
 AAX02970;
 AAX02970 standard; DNA; 1361 BP
 11-FEB-1999
 (MILL-)
 Sequence 291 BP; 86 A; 47 C;
 cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon
 AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
 present invention.
 Claim
 142
 B. Pages 666 to 682 and page 7053 of the sequence listing were
issing at time of publication, meaning no sequences are present
EQ ID NO:1027 to 1052, 7921 and 7922.
 Local Similarity
 gaaaacacaaccataaat 159
 gaaaacacaaccataaat 272
 c acids encoding 4277 human colon cancer-associated polypeptides, for preventing, diagnosing and/or treating colorectal cancers -
 MILLENNIUM BIOTHERAPEUTICS
 Page 2772;
 Conservative
 (first entry)
 98US-0091650
97US-0054646
 98WO-US16102
 contiguous DNA sequence 15.
 9803pp; English.
 100.0%;
 0,
 60 G;
 Score 18;
Pred. No.
 Mismatches
 96 T; 2 other;
 DB
47;
 human cytokine Tango-77
 22;
 0;
 Length 291;
 present for
 0
 Gaps
 0;
```

for specific modulators

WPI; 2000-602362/57

RA,

Leach M;

```
KESULI
AAC75762
DЬ
 QΥ
 Matches
 Query Match
 31-MAR-1999;
02-APR-1999;
05-APR-1999;
 vulnerary; antiporiatic; antiparkinsonian; noctropic; neuroprotective; anticonvulsant; osteopathic; antiparkinsonian; noctropic; neuroprotective; inmunosupinulant; thrombolytic; coagulant; vasotropic; antidiabetic; hypotensive; dermatological; immunosuppressive; antiinflammatory; hypotensive; dermatological; immunosuppressive; antiinflammator; antithyroid; antithanaemic; gene therapy; cancer; proliferative disorder; hypotensic; neurodegenerative disorder; osteoarthritis; graft vs host disease; cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS; cholesterol ester storage; systemic lupus erythematosus; infection; severe combined immunodeficiency; malaria; autoimmune disorder; asthma; allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound; bone damage; cartilage damage; antiinflammatory disease; coagulation; thrombosis; contraceptive; ss.
 AAX0255,-X03048 and AAX22301-X22304 are overlapping BAC genomic sequences containing alternatively spliced forms of human IL-lra. Such fragments are used in the method of the invention which describes the isolation of a novel human TANGO-77 encoding nucleic acid and protein. Tango-77 is a member of the cytokine superfamily that is expected to inhibit inflammation by binding to the interleukin-1 receptor (IL-IR). I may also bind to a new receptor so could regulate other cellular processes associated with acute or chronic inflammation, e.g. asthma, chronic myelogenous leukaemia, rheumatoid arthritis, psoriasis and inflammatory bowel disease. It may also induce or suppress interleukins, cytokines and growth factors. Modulators of this protein are used to treat of prevent conditions associated with abnormal levels of inflammation, or activity of IL-1 or its receptor complex.
 31-MAR-2000; 2000WO-US08621.
 AAC75762
 (CURA-) CURAGEN CORP
 WO20005:173-A2
 Homo sapiens.
 Human; open reading frame; ORFX; detection; cytostatic; hepatotropic;
 Human OkFX ORF1317 polynucleotide sequence SEQ ID NO:2633.
 Sequence
 Example 5; Figure 3;
 851 ttudatattaactatttc 868
 49
 Local Similarity
nes [8; Conserv
 34
 ttmaatattaactatttc 66
 1361 BP;
 standard; cDNA; 1569
 Conservative
 990S-0127636
990S-0127728
2000US-0540763
 (first entry)
 99US-0127607
 462 A;
 100.0%;
 226pp; English
 226 C;
 0,
 Score 18;
Pred. No.
 Mismatches
 231 G; 442 T;
 DB
48;
 20;
 0 other;
 0;
 Indels
 0,
 Gaps
```

```
RESULT 35
AAQ22695/c
ID AAQ226
XX AAQ226
XX AAQ226
XX AAQ226
XX Sequen
XX Sequen
XX Carbon
XX Ca
 ΟĎ
 5
 CC antiporiatic; antiparkinsonian; noctropic; neuroprotective;
CC osteopathic; anticonvulsant; antiarthritic; immunosuppressant;
CC immunostimulant; cardiant; thrombolyvic; coagulant; vasotropic;
CC antidiabetic; hypotensive; dermatological; immunosuppressive;
CC antitinflammatory; antibacterial; antiviral; antifungal; antirheumatic;
CC antithyroid; and antianaemic. The sequences can be used for determining
CC pathological conditions associated with an ORFX-associated disorder. The
CC nucleic acids can be used to express ORFX proteins in gene therapy
CC vectors. The proteins and nucleic acids may be used to treat cancers,
CC graft vs host disease, cardiovascular disease, diabetes mellitus,
CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,
CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,
CC coagulation; to inhibit thrombosis; and as a contraceptive.
 Query Match
Best Local
 Matches
 08-SEP-1990;
19-JUN-1991;
WPI; 1992-089407/12
 Dworkin MB,
 (BOEH) BOEHRINGER INGELHEI.
 08-SEP-1990;
 12-MAR-1992
 DE4028618-A
 Carbon metabolism; pyruvate formation; ss
 Sequence encoding mitochondrial NAD(P)+-dependent malate enzyme
 24-JUL-1992 (first entry)
 AAQ22695 standard; DNA; 1752
 Homo sapiens
 AAQ22695
 Sequence
 AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43357, which represent the human ORFX open reading frames 1 to 3161. The ORFX sequences have activities such as: cytostatic; hepatotropic; vulnerary;
 839 acattcacatgcacacat 856
 Claim 5;
 Novel nucleic acids and peptides derived from open reading frame X, useful for treating e.g. cancers, proliferative disorders, neurodegenerative disorders and cardiovascular disease -
 540 acattcacatgcacacat 557
 Local Similarity hes 18; Conserv
 1569
 Page 1878-1879; 5507pp; English.
 Conservative
 Leober G,
 вP;
 90DE-4028618
91DE-4120178
 90DE-4028618
 /*tag=
 Location/Qualifiers
1..1752
 356 A; 487 C; 358 G;
 100.0%;
 Krystek
 0;
 ВP
 Score
Pred.
 m
 Mismatches
 . 18;
 Maurer-Fogy I;
 367 T; 1 other;
 DB
49;
 21;
 0,
 Length 1569;
 Indels
 0;
 Gaps
 0;
```

```
RESULT 36
AAQ23258/c
 DЬ
 QΥ
 SXCCCCCX PXT PXX
 Query Match
Best Local
 Matches
 studying carbon metabolism in c purificn. and assay
 WPI; 1992-114355/14.
P-PSDB; AAR22356.
 19-JUN-1591;
08-SEP-1590;
 CDS
 Dworkin MB,
 (BOEH) BOEHRINGER INGELHEIM
 19-MAR-1592
 polyA_signal
 mat_peptide
 23-AUG-1991;
 W05204448-A
 sig_peptide
 C-metabolism; tumour; pyruvate; T-lymphocyte;
 Mitochondrial
 1416 TGGAAAAATATAAACATT 1399
 The inventors claim mitochondrial NAD(P)+-dependent malate enzyme and DNA encoding it. AAR21845 has 5' and 3' non-coding regions. The enzyme cartalyses conversion of malate to pyruvate. Both the DNA and the enzyme are useful for studying carbon metabolism in rapidly dividing cells, esp. pyruvate formation from amino acids.
 Homo
 31-JUL-1992
 AAQ23258
 AAQ23258 standard; DNA; 1923 BP
 Sequence 1752 BP; 562 A; 326 C; 386 G; 478 T; 0 other;
 Claim 2; Page 12-13; 20pp; German.
 Human mitochondrial NAD(P)-dependent malate enzyme - used to study formation of pyruvate from aminoacid(s) in tumour cells
 P-PSDB; AAR21845
 sapiens
 l Similarity
18; Conserv
 1.7%;
ilarity 100.0%;
Conservative
 Loeber G,
 (first entry)
 NAD(P)+-dependent malate enzyme
 91DE-4120178
90DE-4028618
 91WO-EP01602
 /*tag= c
1905..1910
 /*tag=
150..1
 Location/Qualifiers 90..1844
 /*tag= d
/note= "homologous to poly(A) signal AATAAA"
 /product= malate_enzyme
90..149
 /*tag=
 .1844
 Krystek E,
 0
 Score 18;
Pred. No.
 e enzyme a
 Mismatches
 Maureriog I,
 a and DNA encoding also specific anti
 DB
49;
 y.
 0
 Length 1752;
 Fruhbeis
 Indels
 antibodies for
 8
 0
 Gaps
```

0;

Claim 1; Page 46 + Fig

3; 60pp; German

```
RESULT 37
AAF18038/C
ID AAF180
XX AAF180
AC AAF180
AC AAF180
AC AAF180
AC AAF180
AC AAF180
AC AAF180
AC AAF180
AC AAF180
AC AAF180
AC AAF180
AC AAF180
XX Human;
XW Cardio
KW Gastro
PH Ruben
XX HUMA
PA (ROSE)
XX Lung
PH Ruben
XX Lang
PH Such 6
XX Lang
PH Such 6
XX Lang
PH Such 6
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XX Lang
PH Such 6
 Ŷ
 8×6666666666666666
 Вb
 Matches
 Query Match
Best Local
 associated proteins represented in AAB58106 - AAB5848. Lung cancer associated proteins and polynucleotide sequences, their agonists, and antagonists may have neuroprotective; cytostatic; cardioactive; immunomodulatory; muscular active general; vulnerary; gastrointestinal general; nephrotropic; antiinfective; gynecological; or antibacterial activity. The invention also includes antibodies specific for the protein or nolvoulation also includes antibodies specific for the
 Claim 1;
 Human; runy carrot productive; immunomodulatory; muscular active; various cardioactive; immunomodulatory; muscular active; gynecological; gastrointestinal; nephrotropic; antiinfective; gynecological; antibacterial; diagnosis; neural disorder; immune disorder; reantibacterial; diagnosis; neural disorder; infectious disease; ds.
 (tumour) cells, esp. pyruvate formation from amino acids. The enzyme was first isolated from the supernatant of mitochondrial preparations from the transformed human T-lymphocyte cell line 1301. Tryptic fragments were partially sequenced and used as a basis for the design of oligonucleotides. These were used in PCR for amplification of malate enzyme encoding DNA in a CDNA bank prepd. from fibrosarcoma HS913. Amplified fragments were subcloned in pUC18, sequenced and used to probe the fibrosarcoma bank. A 1923bp insert was isolated and cloned in Bluescript KS. The poly(A+) tail is not included in this sequence.
 Polynucleotide sequences AAF17982 - AAF18424 encode human lung
 08-MAR-2000;
 WO200055180-A2
 1505
 antigens,
 Ruben SM
 21-SEP-2000
 14-MAR-2001
 AAF18038
 AAF18038 standard;
 Sequence 1923
 polynucleotide
 protein or polynucleotide sequences
 P-PSDB; AAB58162
 (ROSE/) HUMAN
 12-MAR-1999;
 Human;
 The sequence
 77
 cancer associated gene sequences, referred gens, useful for treatment, prevention, and
 sapiens
 cancer
 TGGAAAAATATAAACATT 1488
 2000-587514/55
 tggaaaaatataaacatt 94
 lung cancer associated protein;
 Similarity
18; Conserv
 lung cancer
 Page 536-537; 1425pp; English
 associated
 2000WO-US05918
 Conservative
 (first entry)
 may
 GENOME SCI INC
 BP;
 sequences may be
 99US-0124270
 be
 598 A; 373 C;
 DNA;
 used to
 1.7%;
 polynucleotide sequence SEQ
 2033
 study C-metabolism in rapidly dividing
 0
 ВP
 Score
Pred.
 used
 436 G;
 Mismatches
 . 18;
 The
 neuroprotective; cytostatic;
 516 T; 0 other;
 19
80
detection of lung
 lung cancer associated
 0
 to
 diagnosis
 Length 1923;
 Indels
 ΙD
 as lung
 g cancer
of diso
 reproductive;
 0;
 disorders
 cancer
 Gaps
 0
```

```
RESULT 38
AAQ13822/c
 ₽
 9
 Query Match
Best Local Similarity
Matches 18; Conser
 The sequence was obtd. from 3 overlapping clones isolated from a human 124 cell line cDNA library. The DNA can be used to express the Gap b3 protein which is a transformation-dependent cell surface glycoprocein. The protein may be used to produce antibodies and these, or the DNA sequences, can be used to detect and quantify levels of Gap b3 protein or mRNA in biological samples. A high level of the protein is indicative of certain cancers.
 chromosome identification, as chromosome markers, and for numerous oth diagnostic or research purposes. The proteins may be used to treat disorders such as neural, immune, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal, and proliferative disorders. The proteins may also be used in the treatment of wounds are infectious diseases. Polynucleotide sequences AAF18425 - AAF16433 and peptide AAB58649 are used in the course of the invention for the identification and characterisation of the polynucleotide and protein
 1902
 constructs
 CDS
 Claim 1;
 DHA
 P-PSDB;
 08-APR-1991;
 Galactoprotein
 Human GAP b3
 10-DEC-1991
 AAQ13822;
 AAQ13622
 result in
 Tsuji I,
 (BIOM-) BIOMEMBRANE INST
 12-MAR-199u:
 19-SEP-1991
 WO5113583-A
 Ното
 Sequence 2033
 720
 sequences encoding galactoprotein b3 - pustructs also antibodies to Gap b3 used to ult in elevated expression of protein.
 ctgactctggagcctctt 737
 sapiens
 CIGACICIGGAGCCICTT 1885
 AAR1:118
 ۳<u>.</u>
ن
 standard; cDNA; 3060
 Yamamoto
 1.7%;
llarity 100.0%;
Conservative
 9
 gene
 (first entry)
 ₽₽;
 b3;
 90US-0491910
 91WO-US01606
 1..3060
/*tag=
 Location/Qualifiers
 399
 'n
 carcinoma; cancer; tumour; ss.
 English.
 Α,
 Hakomori
 נם
 623
 0,
 Score
 C; 628
 ВР
 S
 Mismatches
 18;
No.
 ç;
 370
 DB
49;
 produced
to detect
 T; 13
 C
 Length 2033;
 other;
 Indels
 using DNA
 ..
 Gaps
 other
 and
 0
```

Sequence

3060

BP;

643

Α;

913

Ç

910

ç,

594

Η.

0

other;

```
RESULT 39
AAV23920/c
ID AAV239
XX AAV239
XX JAJUL
XX ANTi-i
KW ANTi-i
KW Chemot
XX Homo s
FH Key
FT CDS
YX WO9809
YX WO9809
YX WO9809
YX WO9809
YX Homo s
I2-MAF
YX O3-SEF
YX O3-SEF
YX O3-SEF
YX O3-SEF
YX O3-SEF
YX ANTi-i
YX ANTi-i
PT ANTi-i
YX ANTi-i
PT ANTi-i
YX Disclu
XX Di
 RESULT 40
AAA68247/c
ID AAA682
XX
AC AAA682
XX
DT 27-OCT
 В
 γQ
 δõ
 В
 Query Match
Best Local
 Matches
 Matches
 Query Match
Best Local
 27-OCT-2000
 AAA68247;
 AAA68247 standard;
 This sequence encodes the human alpha3 integrin protein. The alpha3 integrin sequence is targeted by the anti-integrin alpha3 antibody of the invention. The anti-integrin alpha 3 antibody or its antigen binding fragment are for use as anti-tumour agents, and diagnostic reagent compositions. They can also be used in a chemotherapeutic drug.
 Anti-integrin alpha3 antibody and chemotherapeutic drug anti-tumour agents and diagnostic reagent compositions
 Disclosure;
 WPI; 1998-193327/17.
P-PSDB; AAW54032.
 Human alpha3 integrin coding sequence
 Sequence 4636 BP;
 03-SEP-1996;
 03-SEP-1997;
 W09809651-Al
 Homo sapiens
 chemotherapeutic
 Anti-integrin alpha3 antibody; human; anti-tumour agent;
 AAV23920;
 AAV23920 standard;
 (CHUS) CHUGAI SEIYAKU KK.
 12-MAR-1998
 31-JUL-1998
 Local Similarity hes 18; Conserv
 . Similarity
18; Conserv
 Ŧ,
 Page 68-76; 96pp; Japanese
 Conservative
 Conservative
 (first entry)
 Kawata H,
 (first entry)
 96JP-0250887
 97WO-JP03085
 /*tag=
 Location/Qualifiers
73..3228
 drug;
 961 A; 1452 C;
 DNA;
 1.7%;
 DNA;
 1.7%;
 SS
 41708
 ρ
 Sekimori Y,
 4636
 0
 Score 18; pred. No.
 0;
 Score 18; DB
Pred. No. 49;
 ВP
 ВP
 Mismatches
 Mismatches
 1336
 Shimizu K,
 ç,
 50
50
 887 T; 0
 12;
 19;
 0;
 0,
 Length 4636;
 Length 3060;
 Tominaya
 Indels
 other;
 Indels
 useful
 E
 0;
 0;
 Gaps
 Gaps
 in
 0
 0
AACB6106/C

AACB6106/C

XX

AC

AC

AC

ACCB6106 standard; cDNA; 4:

XX

AC

ACCB6106;

XX

DT

29-AUG-2001 (first entry)

XX

Complete genome of bacteric

XX

KW

Dnaf; S. aureus; inhibitor;

XX

KW

Screening assay; ss.

XX

PN

Bacteriophaye 77.

XX

PN

WO200146383-A2.
 Вb
 Qy
 RESULT
 Query Match
Best Local S
 Matches
 30283 CTTCATGACCTGTAATAA 30266
 30-SEP-1999;
01-DEC-1999;
02-DEC-1999;
 03-DEC-1996;
03-JUN-1999;
28-SEP-1999;
 The present invention describes a method for identifying a bacteriophage coding region encoding a product active on an essential bacterial target. The method comprises identifying a nucleic acid sequence encoding a gene product that provides a bacteria inhibiting function when an uncharacterised bacteriophage infects a pathogenic bacterium. The compound active on a target of a bacteriophage inhibitor protein in a bacteria is used to treat or prevent a bacterial infection in an animal. AAA68243 to AAA69442 and AAB16523 to AAB16524 represent bacteriophage
 WPI;
 Complete genome of bacteriophage
 Sequence 41708 BP; 15607
 nucleotide and protein sequences which are used
 Example 3; Page 141-151; 456pp; English.
 Identifying a bacteriophage coding region for treating bacterial infections comprises identifying a nucleic acid encoding a product inhibits bacteria when a bacteriophage infects a bacterium
 Pelletier J,
 03-DEC-1999;
 08-JUN-2000
 Bacteriophage 77
 957 cttcatgacctgtaataa 974
 (PHAG-) PHAGETECH INC
 WO200032825-A2
 present invention.
 2000-412361/35
 . Similarity
18; Conserv
 1.7%; S. larity 100.0%; Conservative 0;
 Gros P,
 99US-0157218.
99US-0168777.
99US-0454252.
 98US-0110992.
99US-0326144.
99US-0407804.
 99WO-IB02040
 inhibitor; bacteriophage 77; ORF 104; phage 77ORF104;
 entry)
 Dubow
 Α;
 41708
 5898
 Score 18;
Pred. No.
 Z
 Mismatches
 Ç;
 77
 8088 G; 12115
```

DB 52; 21; 0;

Length 41708;

Indels

0;

Gaps

0;

T; 0 other;

in the exemplification

of.

```
Bacteriophage: antimicrobial; genome; identification; antibacterial; bacterial growth inhibition; bacterial infection; ds.
 Bacteriophage 77 complete genome sequence
```

```
RESULT 4
 9
 ₽
 Query Match
Best Local Similarity
Matches 18; Conserv
 30283 CTTCATGACCTGTAATAA 30266
 gene
 polypeptides and polynucleotides are useful for treating microbial, preferably bacterial, especially Staphylococcal, infections. DnaI polypeptides and polynucleotides are useful for biological, ediagnostic, prophylactic, clinical and therapeutic use, and as components in databases useful for search analyses as well as in sequence analysis
New nucleic acid that is a 5' expressed sequence obtaining cDNAs and genomic DNAs that correspond
 This sequence represents the genome of Bacteriophage 77, growth inhibitory gene product of ORF 104 interacts with from S. aureus, to form the basis of a screening assay.
 26-FEB-1999;
 21-FEB-2000; 2000EP-0200610
 06-SEP-2000
 EP1033401-A2
 Human;
 Human
 06-OCT-2000
 AAC31204 standard; cDNA; 212 BP
 Homo sapiens
 Sequence 41708 BP;
 (GEST) GENSET
 957 cttcatgacctgtaataa 974
 Pelletier J,
 22-DEC-1999; 99US-0470512
12-OCT-2000; 2000US-0689952
 21-DEC-2000;
 (WILL/) WILLIAMS K M
 (PHAG-) PHAGETECH INC.
 42
 therapy;
 Milne Edwards
 secreted
 DnaI
 Ω
 EST;
 polypeptides useful bacterial, diseases
 Fig
 (first entry)
 Conservative
 2000WO-US35180
 Gros P,
 expressed sequence tag; chromosome mapping; ss.
 99US-0122487
 expressed
 protein 5'
 2; 107pp;
 15607 A; 5898 C; 8088 G;
 J,
 100.0%;
 Duclert A,
 EST,
 English.
 0;
 .Pred. No.
 3
 SEQ
 for treating and diagnosing microbial, such as those caused by Staphylococcus
 Mismatches
 ID NO:
 Giordano
 secreted protein; cDNA
 52;
 12115 T; 0 other;
 0;
 Length 41708;
 tag (5' EST) for to 5'ESTs and for
 Indels
 Dna I
 Dnal derived
 0
 isolation
 0;
```

\*

```
RESULT .
 Db
 Query Match 1.6%;
Best Local Similarity 100.0%;
Matches 17; Conservative
The present sequence is one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. No ORF has yet been conclusively identified within the present sequence. The 5' ESTs were prepared from total human RNAs or polyAr RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences
 The present sequence is one of a large number of 5' ESIs derived from mRNAs encoding secreted proteins. No ORF has yet been conclusively identified within the present sequence. The 5' ESIs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Such ESIs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESIs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESIs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures.
 Claim 1; SEQ ID 14774; 71pp + CD-ROM; English.
 New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining CDNAs and genomic DNAs that correspond to 5'ESTs and for
 Dumas Milne Edwards J.
 21-FEB-2000;
 06-SEP-2000
 EP1033401-A2
 Homo sapiens
 Human; 5' EST;
 06-OCT-2000
 AAC10699
 diagnostic, forensic, gene therapy and chromosome mapping procedures
 (GEST) GENSET
 AAC10699;
 Sequence 212 BP; 64 A; 41 C; 40 G;
 967 tytaataatctcataat 983
 43 tgtaataatctcataat 59
 44
(4)
 2000-500381/45
 standard;
 and secretion vectors
 (first entry)
 2000EP-U200610
 ID 35279; 71pp - CD-ROM; English
 chromosome mapping; ss.
 cDNA; 314
 gene therapy and chromosome mapping procedures
 ű
 Duclert A,
 EST,
 0;
 Score 17; DB pred. No. 1.5
 SEQ
 ID
 66
 Giordano
 NO: 14774.
 T; 1 other
 secreted protein; cDNA isolation;
 1.5e+02;
hes 0;
 DB 21;
 Length 212
 Indels
 0;
```

밁 Ş

```
RESULT AAH71986
 Matches
 Query Match
Best Local
 Query Match
Best Local
 Matches
 08-DEC-1999;
21-DEC-1999;
14-MAR-2000;
12-MAY-2000;
09-JUN-2000;
21-JUL-2000;
 The invention relates to novel genes (AAH68727-AAH73383) associated with cervical cancer with cytostatic activity. The nucleic acids and encoded polypeptides are useful: to assess if a partient is afflicted with cervical cancer or has a pre-malignant condition; to monitor the progression of cervical cancer or a premalignant condition in a patient; and to select and/or assess the efficacy of a compound or therapy for inhibiting cervical cancer in a patient. The nucleic acids may also be
 New
and
 Sequence
 Claim 1;
 Schlegel
 (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC
 derived from the 5' ends of mRNAs and even in those cases where longer CDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors.
 08-DEC-2000;
 14 - JUN - 2001
 WO200142467-A2
 Cervical cancer;
 AAH71986;
 AAH71986 standard;
 Human cervical
 19-SEP-2001 (first entry)
 Sequence 314 BP; 102 A; 68 C; 44 G;
 Local Similarity hes 17; Conserv
 216 attttaaatattaacta 232
 46 attttaaatattaacta
 Local Similarity
nes 17; Conserv
 44
 isolated nucleic acid for diagnosing and treating cervical cancer for assessing and detecting compounds for treating the cancer - \,
 sapiens
 æ
 Page 639; 1051pp; English
 329 BP; 117
 gene therapy.
 990S-0169681.
990S-0171350.
2000US-0189315.
2000US-0203791.
2000US-0210600.
2000US-0220114.
 Conservative
 Conservative
 Deeds J,
 2000WO-US33312
 cancer
 cytostatic;
 1.6%;
 cDNA; 329
 Α,
 marker
 Berger
 1.6%;
 62
 ភ
 ი;
 0,
 Score 17; DB Pred. No. 1.5
 0;
 pre-malignant condition;
 nucleic
 ВР
 Score 17;
Pred. No.
 70
 ,
 Mismatches
 <u>ე</u>
 Zhao
 87
 100 T; 0
 acid
 . .
 DB 22; I
1.5e+02;
 1.5e+02;
thes 0;
 DB 21;
 0
 3260
 other;
 other;
 0
 Length 329;
 Length 314;
 Indels
 Indels
 gene
 therapy;
 0
 0,
 Gaps
 Gaps
 Ċ
 0
 RESULT 45
AAC54948/c
ID AAC54948;
XX AC54948;
XX AC54948;
XX AC54948;
XX AC54948;
XX AC54948;
XX Hybridisat
XX Hybridisat
XX Hybridisat
XX Hybridisat
XX Hybridisat
XX Hybridisat
XX Hybridisat
XX Hybridisat
XX Hybridisat
XX Hybridisat
XX Drabidops:
XX EP1033405-
XX Grabidops:
XX Drabidops:
XX Dra
 Db
 Q
03-JUN-1999
04-JUN-1999
07-JUN-1999
07-JUN-1999
08-JUN-1999
10-JUN-1999
11-JUN-1999
16-JUN-1999
 06-APR 1995
16-APR 1995
16-APR 1995
16-APR 1995
11-APR 1995
21-APR 1995
23-APR 1995
23-APR 1995
30-APR 1995
30-APR 1995
30-APR 1995
06-MAY 1995
06-MAY 1995
11-MAY 1995
 protein identification; sign
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## ALIGNMENTS

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17-JUL-1998; 24-DEC-1997; 24-DEC-1997; 17-JUL-1998; WPI; 1999-405486/34. Reed SG, LMA encoding human breast tumour protein immunogenic fragment. (CORI-) CORIXA CORP 08-JUL-1955. W09933869-A2 Breast tumour breast cancer Homo sapiens 22-DEC-1998; û6-SEP-1999 AAX84210; AAX84210 standard; cDNA; 1001 BP Χu Ľ. (first entry) protein; immunogenic fragment; vaccine; development; therapy; ss. 98US-0118627. 97US-0998253. 97US-0998255. 98US-0118554. 98WO-US27416 detection;

New breast tumour protein genes used, in vaccines for immunotherapy, or for diagnosis of breast cancer

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 medicaments for inhibiting the development of breast cancer in a patient. They can also be used to treat breast cancer. Antibodics against these polypeptides can be used to detect and monitor progression of breast cancer in patients. Primers and probes derived from the polypucleotides encoding the breast proteins are useful for detection of breast cancer. Peripheral blood cells from a patient incubated in the presence of at least one polypeptide, such that T cells proliferate, are useful in manufacture of a medicament for treating breast cancer in a patient. Antigen presenting cells incubated in the presence of at least one polypeptide are also useful for treating breast cancer.
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 A novel isolated polypeptide comprising an inmunogenic portion breast cancer protein useful in the detection and treatment of
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 (CORI-) CORIXA CORP
 Human; breast tumour and
breast cancer; vaccine;
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The present sequence was isolated from a breast tumour cDNA library. It is provided in a specification relating to compounds for immunotherapy and diagnosis of breast cancer. Breast tumour antigens and the polynucleotides that encode them may be used in the production of a pharmaceutical composition to be used in the treatment of breast cancer proliferated I cells and incubated antigen presenting cells are also required. The polypeptides and polynucleotides may also be used to produce a vaccine.

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